



# SERVICE MANUAL

VHF MARINE TRANSCEIVER

**IC-M506**  
**IC-M506EURO**

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S-15102XZ-C1  
September 2014

Icom Inc.

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## INTRODUCTION

This service manual describes the latest technical information for the **IC-M506/IC-M506EURO** VHF MARINE TRANSCEIVER, at the time of publication.

MODEL	VERSION NUMBER	VERSION	HM-205RB	NMEA 2000 UNIT	AIS UNIT
IC-M506	[#01]	USA	✓	✓	✓
	[#05]	EUR			
	[#06]	HOL			
	[#07]	FRG			
	[#09]	CHN			
	[#10]	AUS			
	[#11]	USA-01			
	[#21]	USA-02			
	[#31]	USA-03			
	[#41]	USA-04			
IC-M506 EURO	[#04]	UK	✓	✓	✓
	[#14]	UK-01			
	[#15]	EUR-01			
	[#16]	HOL-01			
	[#17]	FRG-01			
	[#19]	CHN-01			
	[#20]	AUS-01			
	[#24]	UK-02			
	[#25]	EUR-02			
	[#26]	HOL-02			
	[#27]	FRG-02			
	[#29]	CHN-02			
	[#30]	AUS-02			
	[#34]	UK-03			
	[#35]	EUR-03			
	[#36]	HOL-03			
	[#37]	FRG-03			
	[#39]	CHN-03			
	[#40]	AUS-03			
	[#44]	UK-04			
	[#45]	EUR-04			
	[#46]	HOL-04			
	[#47]	FRG-04			
	[#49]	CHN-04			
	[#50]	AUS-04			

## ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

1. 10-digit Icom part number
2. Component name
3. Equipment model name and unit name
4. Quantity required

### <ORDER EXAMPLE>

1110003491 S.IC TA31136FNG IC-M506 MAIN UNIT 5 pieces  
8820001210 Screw 2438 screw IC-M506EURO Top cover 10 pieces

Addresses are provided on the inside back cover for your convenience.

## CAUTION

**NEVER** connect the transceiver to an AC outlet or to a DC power supply that uses more than the specified voltage. This will ruin the transceiver.

**DO NOT** reverse the polarities of the power supply when connecting the transceiver.

**DO NOT** apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the transceiver's front-end.

To upgrade quality, any electrical or mechanical parts and internal circuits are subject to change without notice or obligation.



## REPAIR NOTES

1. Make sure that the problem is internal before dis-assembling the transceiver.
2. **DO NOT** open the transceiver until the transceiver is disconnected from its power source.
3. **DO NOT** force any of the variable components. Turn them slowly and smoothly.
4. **DO NOT** short any circuits or electronic parts. An insulated tuning tool **MUST** be used for all adjustments.
5. **DO NOT** keep power ON for a long time when the transceiver is defective.
6. **DO NOT** transmit power into a Standard Signal Generator or a Sweep Generator, otherwise the RF power may damage them.
7. **ALWAYS** connect a 50 dB to 60 dB attenuator between the transceiver and a Deviation Meter or Spectrum Analyzer, when using such test equipment.
8. **READ** the instructions of the test equipment thoroughly before connecting it to the transceiver.

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# SECTION 1

# SPECIFICATIONS

## IC-M506

### ◇ General

#### • Frequency coverage:

Tx 156.025–157.425 MHz  
Rx 156.050–163.275 MHz  
CH70 156.525 MHz

#### • Mode:

FM, DSC

#### • Channel spacing:

25 kHz

#### • Operating temp. range:

–20°C to +60°C (–4°F to +140°F)

#### • Current drain (at 13.8 V):

TX high 5.5 A maximum  
Max. audio 5.0 A maximum  
(With EXT SP)  
Max. audio 1.5 A maximum  
(With INT SP)

#### • Power supply requirement:

13.8 V DC ±15%

(negative ground)

#### • Frequency tolerance:

±10 ppm (–20°C to +60°C:  
–4°F to +140°F)

#### • Antenna impedance:

50 Ω nominal

#### • Dimensions:

178.9 (W) × 113.9 (H) ×

113.8 (D) mm

7 (W) × 4.5 (H) × 4.5 (D) inches

#### • Weight (approximately):

1.4 kg: 3.1 lb

### ◇ Transmitter

#### • Output power:

25 W/1 W

#### • Modulation system:

Frequency modulation

#### • Max. frequency deviation:

±5.0 kHz

#### • Spurious emissions:

Less than –70 dBc (high)

Less than –56 dBc (low)

### ◇ Receiver

#### • Receive system:

Double conversion

superheterodyne

#### • Sensitivity (12 dB SINAD):

–13 dBμ (typical)

–5 dBμ emf (typical)

(CH70/DSC) (1% BER)

#### • Squelch sensitivity:

Less than –7 dBμ

#### • Intermodulation rejection ratio:

More than 75 dB

More than 68 dBμ emf

(CH70/DSC) (1% BER)

#### • Spurious response rejection ratio:

More than 75 dB

More than 73 dBμ emf

(CH70/DSC) (1% BER)

#### • Adjacent channel selectivity:

More than 75 dB

More than 75 dBμ emf

(CH70/DSC) (1% BER)

#### • Audio output power:

More than 15 W at 10%  
distortion into a 4 Ω external  
speaker

### ◇ Channel list

Channel number			Frequency (MHz)	
USA	INT	CAN	Transmit	Receive
	01	01	156.050	160.650
01A			156.050	156.050
	02	02	156.100	160.700
	03	03	156.150	160.750
03A			156.150	156.150
	04		156.200	160.800
		04A	156.200	156.200
	05		156.250	160.850
05A		05A	156.250	156.250
06	06	06	156.300	156.300
	07		156.350	160.950
07A		07A	156.350	156.350
08	08	08	156.400	156.400
09	09	09	156.450	156.450
10	10	10	156.500	156.500
11	11	11	156.550	156.550
12	12	12	156.600	156.600
13 <sup>*2</sup>	13	13 <sup>*1</sup>	156.650	156.650
14	14	14	156.700	156.700
15 <sup>*2</sup>	15 <sup>*1</sup>	15 <sup>*1</sup>	156.750	156.750
16	16	16	156.800	156.800
17 <sup>*1</sup>	17	17 <sup>*1</sup>	156.850	156.850
	18		156.900	161.500
18A		18A	156.900	156.900
	19		156.950	161.550
19A		19A	156.950	156.950
20	20	20 <sup>*1</sup>	157.000	161.600
20A			157.000	157.000

Channel number			Frequency (MHz)	
USA	INT	CAN	Transmit	Receive
	21	21	157.050	161.650
21A		21A	157.050	157.050
		21B	Rx only	161.650
	22		157.100	161.700
22A		22A	157.100	157.100
	23	23	157.150	161.750
23A			157.150	157.150
24	24	24	157.200	161.800
25	25	25	157.250	161.850
		25B	Rx only	161.850
26	26	26	157.300	161.900
27	27	27	157.350	161.950
28	28	28	157.400	162.000
		28B	Rx only	162.000
	60	60	156.025	160.625
	61		156.075	160.675
61A		61A	156.075	156.075
	62		156.125	160.725
		62A	156.125	156.125
	63		156.175	160.775
63A			156.175	156.175
	64	64	156.225	160.825
64A		64A	156.225	156.225
	65		156.275	160.875
65A	65A	65A	156.275	156.275
	66		156.325	160.925
66A	66A	66A <sup>*1</sup>	156.325	156.325
67 <sup>*2</sup>	67	67	156.375	156.375

Channel number			Frequency (MHz)	
USA	INT	CAN	Transmit	Receive
68	68	68	156.425	156.425
69	69	69	156.475	156.475
70 <sup>*3</sup>	70 <sup>*3</sup>	70 <sup>*3</sup>	156.525	156.525
71	71	71	156.575	156.575
72	72	72	156.625	156.625
73	73	73	156.675	156.675
74	74	74	156.725	156.725
75 <sup>*1</sup>	75 <sup>*1</sup>	75 <sup>*1</sup>	156.775	156.775
76 <sup>*1</sup>	76 <sup>*1</sup>	76 <sup>*1</sup>	156.825	156.825
77 <sup>*1</sup>	77	77 <sup>*1</sup>	156.875	156.875
	78		156.925	161.525
78A		78A	156.925	156.925
	79		156.975	161.575
79A		79A	156.975	156.975
	80		157.025	161.625
80A		80A	157.025	157.025
	81		157.075	161.675
81A		81A	157.075	157.075
	82		157.125	161.725
82A		82A	157.125	157.125
	83	83	157.175	161.775
83A		83A	157.175	157.175
		83B	Rx only	161.775
84	84	84	157.225	161.825
84A			157.225	157.225
85	85	85	157.275	161.875
85A			157.275	157.275
86	86	86	157.325	161.925

Channel number			Frequency (MHz)	
USA	INT	CAN	Transmit	Receive
86A			157.325	157.325
87	87	87	157.375	161.975
87A			157.375	157.375
88	88	88	157.425	162.025
88A			157.425	157.425

WX channel	Frequency (MHz)	
	Transmit	Receive
1	RX only	162.550
2	RX only	162.400
3	RX only	162.475
4	RX only	162.425
5	RX only	162.450
6	RX only	162.500
7	RX only	162.525
8	RX only	161.650
9	RX only	161.775
10	RX only	163.275

<sup>\*1</sup> Low power only. <sup>\*2</sup> Momentary high power. <sup>\*3</sup> DSC operation only.

**NOTE:** Simplex channels, 3, 21, 23, 61, 64, 81, 82 and 83 **CANNOT** be lawfully used by the general public in U.S.A. waters.

## ■ IC-M506EURO

### ◇ General

- Frequency coverage:
  - Tx 156.000–162.000 MHz
  - Rx 156.000–163.425 MHz
  - CH70 156.525 MHz
- Mode: FM, DSC
- Channel spacing: 25 kHz
- Operating temperature range: –20°C to +60°C
- Current drain (at 13.8 V):
  - TX high 5.5 A maximum
  - Maximum audio 5.0 A maximum (With EXT SP)
  - Maximum audio 1.5 A maximum (With INT SP)
- Power supply requirement:
  - (negative ground) 13.8 V DC (10.8 to 15.6 V DC)
- Frequency error: Less than ±0.5 kHz
- Antenna impedance: 50 Ω nominal
- Dimensions: 178.9 (W) × 113.9 (H) × 113.8 (D) mm  
(Projections not included)
- Weight (approximately): 1.4 kg

### ◇ Transmitter

- Output power: 25 W/1 W
- Modulation system: Frequency modulation
- Maximum frequency deviation: ±5.0 kHz
- Spurious emissions: Less than 0.25 µW

### ◇ Receiver

- Receive system: Double conversion superheterodyne
- Sensitivity:
  - FM (20 dB SINAD) –5 dBµ emf (typical)
  - DSC (1% BER) –4 dBµ emf (typical)
- Squelch sensitivity: Less than –2 dBµ emf
- Intermodulation rejection ratio:
  - FM More than 75 dB
  - DSC (1% BER) More than 68 dBµ emf
- Spurious response rejection ratio:
  - FM More than 75 dB
  - DSC (1% BER) More than 73 dBµ emf
- Adjacent channel selectivity:
  - FM More than 75 dB
  - DSC (1% BER) More than 73 dBµ emf
- Audio output power: More than 15 W at 10% distortion into a 4 Ω external speaker

All stated specifications are subject to change without notice or obligation.

### ◇ Channel list

#### • International channels

CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)	
	Transmit	Receive		Transmit	Receive		Transmit	Receive		Transmit	Receive		Transmit	Receive		Transmit	Receive
01	156.050	160.650	11	156.550	156.550	21	157.050	161.650	61	156.075	160.675	71	156.575	156.575	81	157.075	161.675
02	156.100	160.700	12	156.600	156.600	22	157.100	161.700	62	156.125	160.725	72	156.625	156.625	82	157.125	161.725
03	156.150	160.750	13	156.650	156.650	23	157.150	161.750	63	156.175	160.775	73	156.675	156.675	83	157.175	161.775
04	156.200	160.800	14	156.700	156.700	24	157.200	161.800	64	156.225	160.825	74	156.725	156.725	84	157.225	161.825
05	156.250	160.850	15 <sup>*2</sup>	156.750	156.750	25	157.250	161.850	65	156.275	160.875	75 <sup>*4</sup>	156.775	156.775	85	157.275	161.875
06	156.300	156.300	16	156.800	156.800	26	157.300	161.900	66	156.325	160.925	76 <sup>*4</sup>	156.825	156.825	86	157.325	161.925
07	156.350	160.950	17 <sup>*2</sup>	156.850	156.850	27	157.350	161.950	67	156.375	156.375	77	156.875	156.875	87	157.375	157.375
08	156.400	156.400	18	156.900	161.500	28	157.400	162.000	68	156.425	156.425	78	156.925	161.525	88	157.425	157.425
09	156.450	156.450	19	156.950	161.550	37A <sup>*3</sup>	157.850	157.850	69	156.475	156.475	79	156.975	161.575	P4 <sup>*3</sup>	161.425	161.425
10	156.500	156.500	20	157.000	161.600	60	156.025	160.625	70 <sup>*1</sup>	156.525	156.525	80	157.025	161.625			

<sup>\*1</sup> DSC operation only.

<sup>\*2</sup> Channels 15 and 17 may also be used for on-board communications provided the effective radiated power does not exceed 1 W, and subject to the national regulations of the administration concerned when these channels are used in its territorial waters.

<sup>\*3</sup> UK Marina Channels: M1=37A (157.850 MHz), M2=P4 (161.425 MHz) for U.K. version only

<sup>\*4</sup> The output power of channels 75 and 76 are limited to low power (1 W) only. The use of these channels should be restricted to navigation-related communications only and all precautions should be taken to avoid harmful interference to channel 16, e.g. by means geographical separation.

#### • USA channels (for U.K. version only)

CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)		CH	Frequency (MHz)	
	Transmit	Receive		Transmit	Receive		Transmit	Receive		Transmit	Receive		Transmit	Receive		Transmit	Receive
01A	156.050	156.050	12	156.600	156.600	22A	157.100	157.100	64A	156.225	156.225	75 <sup>*1</sup>	156.775	156.775	85	157.275	161.875
--	---	---	13 <sup>*2</sup>	156.650	156.650	23A	157.150	157.150	65A	156.275	156.275	76 <sup>*1</sup>	156.825	156.825	85A	157.275	157.275
03A	156.150	156.150	14	156.700	156.700	24	157.200	161.800	66A	156.325	156.325	77 <sup>*1</sup>	156.875	156.875	86	157.325	161.925
--	---	---	15 <sup>*2</sup>	156.750	156.750	25	157.250	161.850	67 <sup>*2</sup>	156.375	156.375	78A	156.925	156.925	86A	157.325	157.325
05A	156.250	156.250	16	156.800	156.800	26	157.300	161.900	68	156.425	156.425	79A	156.975	156.975	87	157.375	161.975
06	156.300	156.300	17 <sup>*1</sup>	156.850	156.850	27	157.350	161.950	69	156.475	156.475	80A	157.025	157.025	87A	157.375	157.375
07A	156.350	156.350	18A	156.900	156.900	28	157.400	162.000	70 <sup>*3</sup>	156.525	156.525	81A	157.075	157.075	88	157.425	162.025
08	156.400	156.400	19A	156.950	156.950	37A <sup>*4</sup>	157.850	157.850	71	156.575	156.575	82A	157.125	157.125	88A	157.425	157.425
09	156.450	156.450	20	157.000	161.600	61A	156.075	156.075	72	156.625	156.625	83A	157.175	157.175	P4 <sup>*4</sup>	161.425	161.425
10	156.500	156.500	20A	157.000	157.000	--	---	---	73	156.675	156.675	84	157.225	161.825			
11	156.550	156.550	21A	157.050	157.050	63A	156.175	156.175	74	156.725	156.725	84A	157.225	157.225			

<sup>\*1</sup> Low power only.

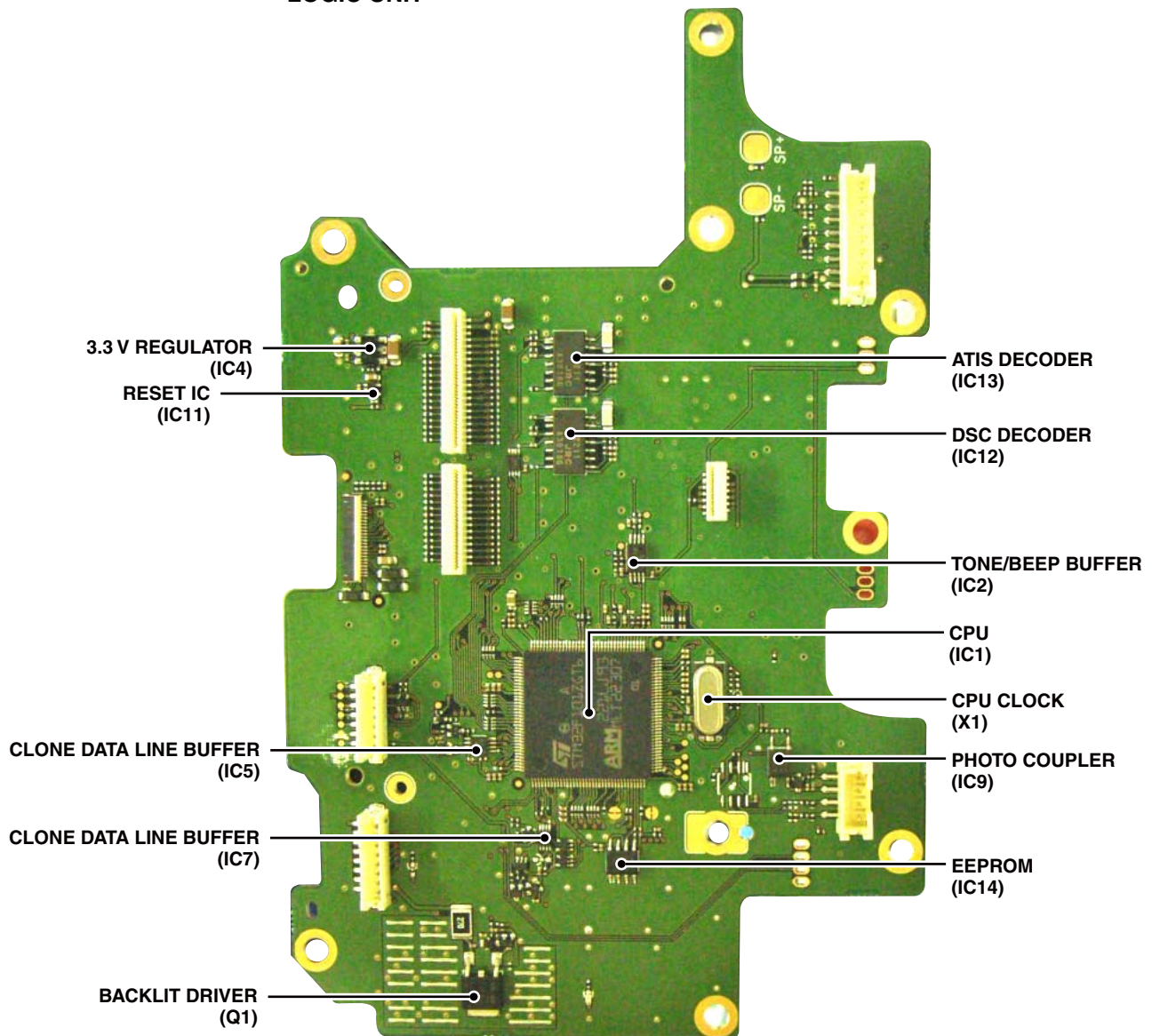
<sup>\*2</sup> Momentary high power.

<sup>\*3</sup> DSC operation only.

<sup>\*4</sup> UK Marina Channels: M1=37A (157.850 MHz), M2=P4 (161.425 MHz) for U.K. version only

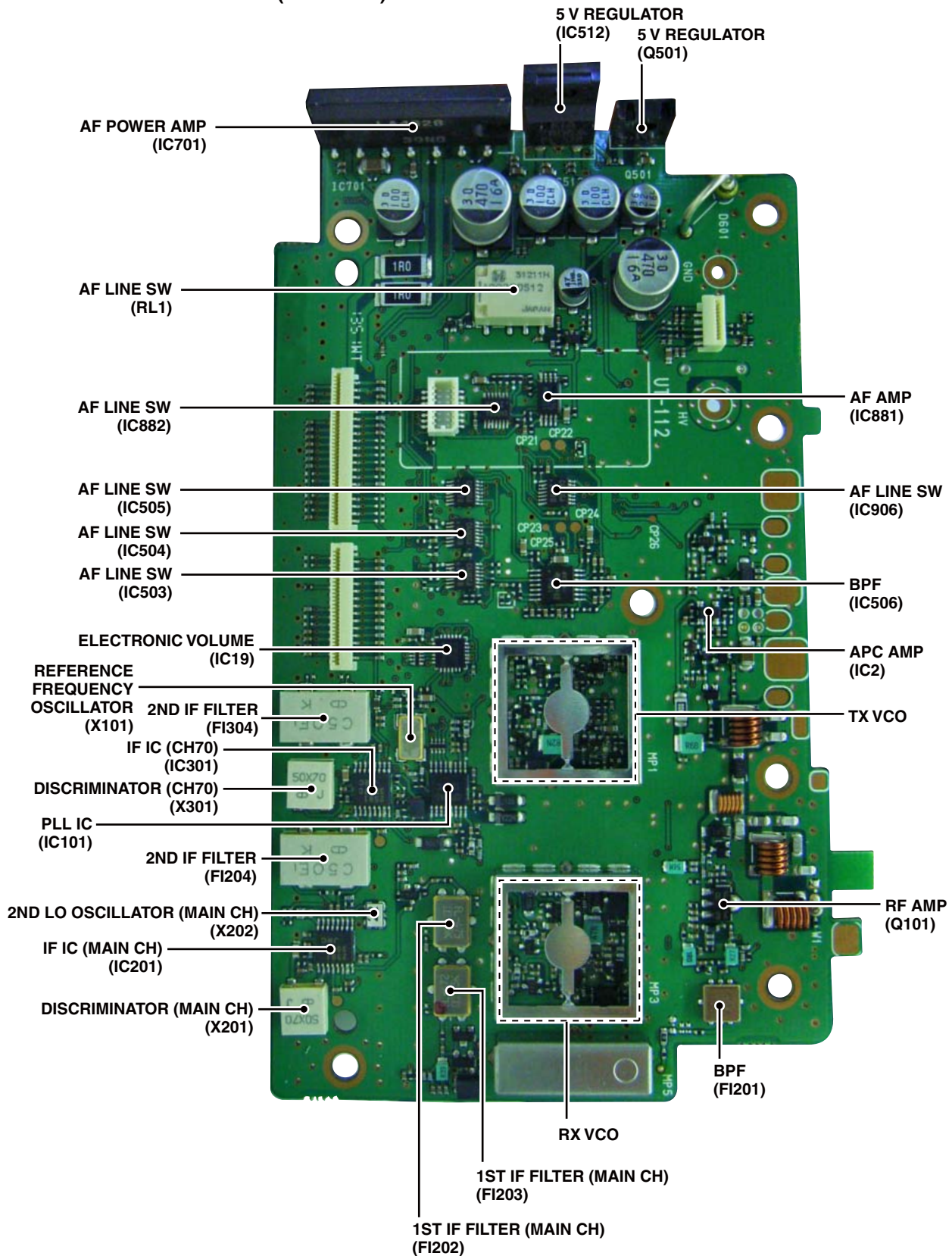
**NOTE:** Simplex channels, 3, 21, 23, 61, 64, 81, 82 and 83 **CANNOT** be lawfully used by the general public in U.S.A. waters.

## • LOGIC UNIT

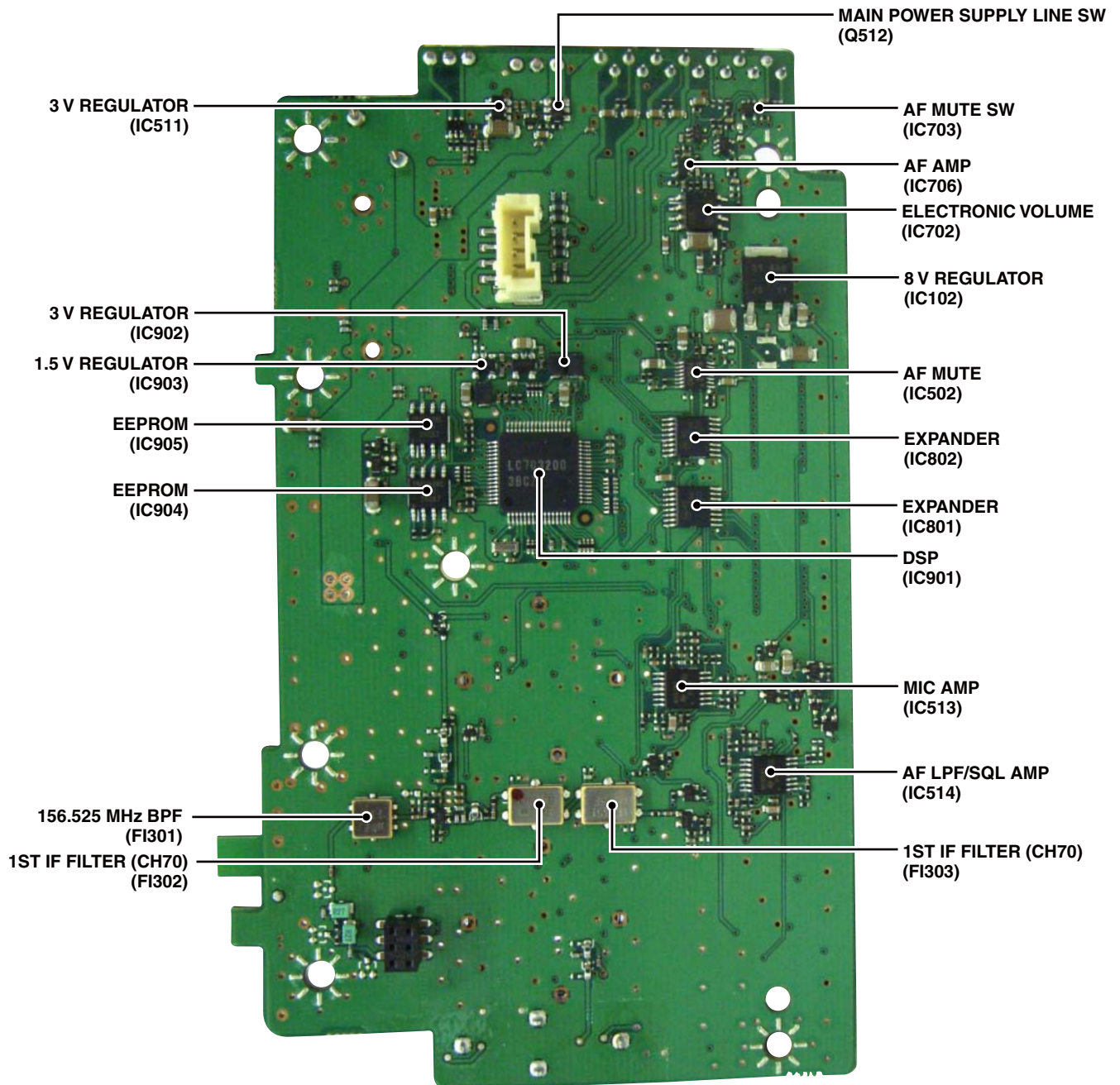




• MAIN UNIT  
(TOP VIEW)



• MAIN UNIT  
(BOTTOM VIEW)

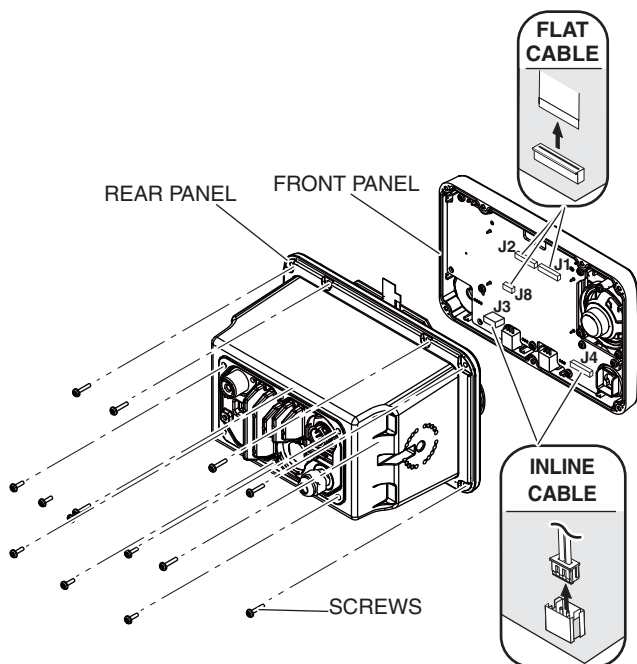




## SECTION 3 DISASSEMBLY INSTRUCTION

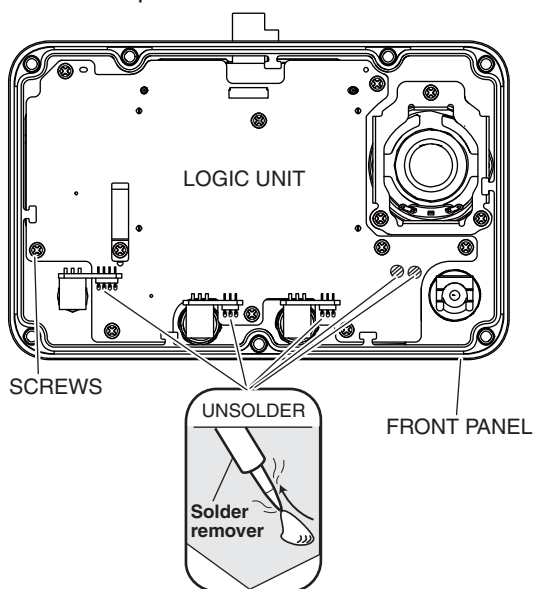
### 1. Removing the LOGIC UNIT

- 1) Unscrew 14 screws from the rear panel, and remove the front panel.
- 2) Disconnect the flat cables and speaker cable.

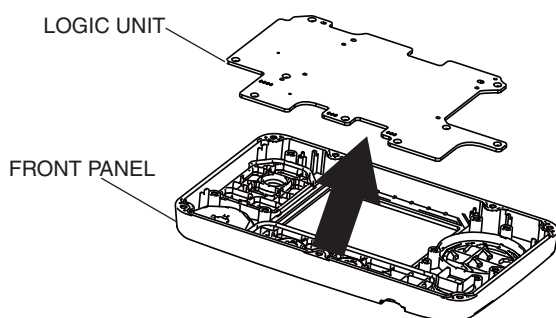


**BE CAREFUL** when you disassemble the front cover from the transceiver body. Otherwise the **speaker cable** and the **flat cable** may be cut.

- 3) Unscrew 10 screws from the LOGIC UNIT.
- 4) Unsolder 12 points.

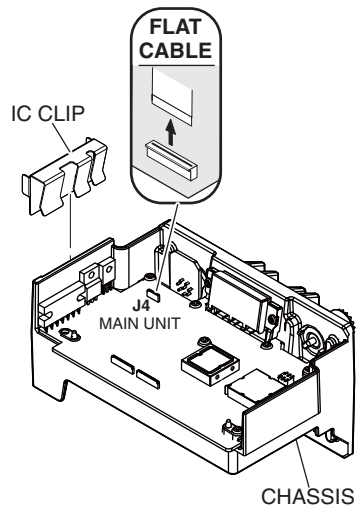


- 5) Take off the LOGIC UNIT from the front panel.

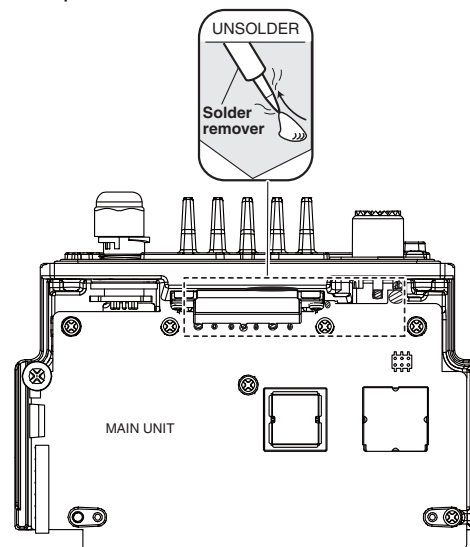


### 2. Removing the MAIN UNIT

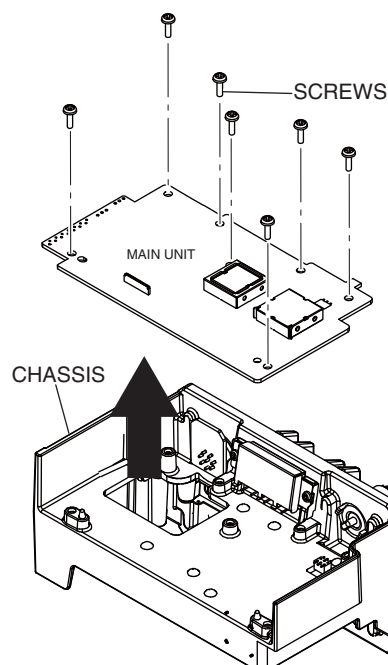
- 1) Remove IC CLIP.
- 2) Disconnect the flat cable.



- 3) Unsolder 11 points.



- 4) Unscrew 7 screws from the MAIN UNIT.
- 5) Take off the MAIN UNIT from the CHASSIS.



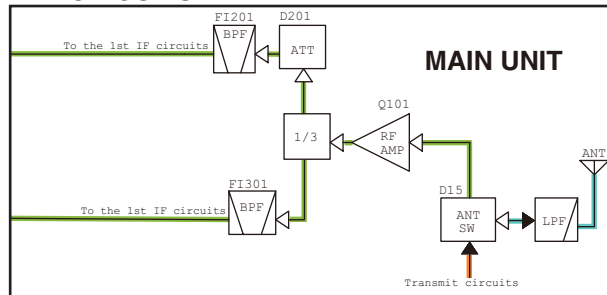
## 4-1 RECEIVE CIRCUITS

### RF CIRCUITS (MAIN UNIT)

The RX signal from the antenna is passed through the LPF (L22, L23 and C104–C106), ANT SW (D15), and then applied to the RF AMP (Q101).

The amplified signal is divided and applied to the 1st IF circuits for MAIN CH or CH70, through the attenuator (D201, R201 and C201: for MAIN CH) and BPF (FI201: for MAIN CH: FI301: for CH70).

#### • RF CIRCUITS

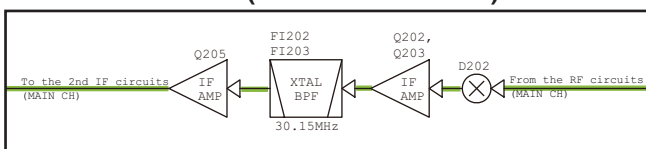


### 1ST IF CIRCUITS FOR MAIN CHANNELS (MAIN UNIT)

The RX signal from the RF circuits is applied to the 1st mixer (D202), and mixed with the 1st LO signal, resulting in the 30.15 MHz 1st IF signal.

The 1st IF signal is amplified by the 1st IF AMP (Q202, Q203), filtered by the 1st IF filter (FI202 and FI203), and then applied to the another IF AMP (Q205). The amplified signal is applied to the 2nd IF circuits.

#### • 1ST IF CIRCUITS (For main channels)



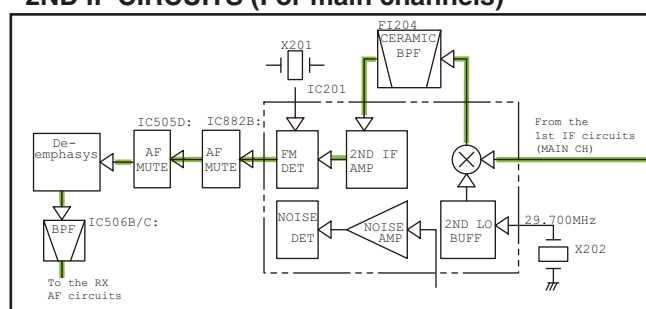
### 2ND IF CIRCUITS FOR MAIN CHANNELS (MAIN UNIT)

The 1st IF signal from the 1st IF circuits is applied to the IF IC (IC201, pin 16). The IF IC contains the 2nd IF mixer, 2nd IF AMP, detector, and so on, in its package.

The 1st IF signal is mixed with the 29.7 MHz 2nd LO signal from the 2nd LO oscillator (X202), resulting in the 450 kHz 2nd IF signal. The 2nd IF signal is passed through the 2nd IF filter (FI204) to remove the sideband noise. The filtered signal is amplified by the 2nd IF AMP, and demodulated by the quadrature detector with discriminator (X201).

The demodulated AF signal is applied to the RX AF circuits, through the AF SW (IC882, pins 4, 3).

#### • 2ND IF CIRCUITS (For main channels)

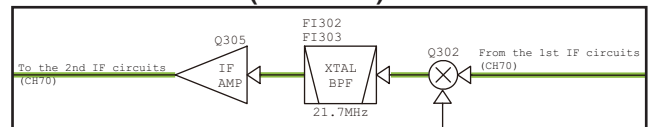


### 1ST IF CIRCUITS FOR CH70 (MAIN UNIT)

The RX signal from the RF circuits is applied to the 1st IF mixer (Q302), and mixed with the 134.825 MHz 1st LO signal, which is generated by the VCO (Q3, Q4, D3, and D4), resulting in the 21.7 MHz 1st IF signal.

The 1st IF signal is filtered by the 1st IF filters (FI302 and FI303), and then applied to the 1st IF AMP (Q305). The amplified signal is applied to the 2nd IF circuits.

#### • 1ST IF CIRCUITS (For CH70)



### 2ND IF CIRCUITS FOR CH70 (MAIN UNIT)

The 1st IF signal from the 1st IF circuits is applied to the IF IC (IC301, pin 16). The IF IC contains the 2nd IF mixer, 2nd IF AMP, detector, and so on, in its package.

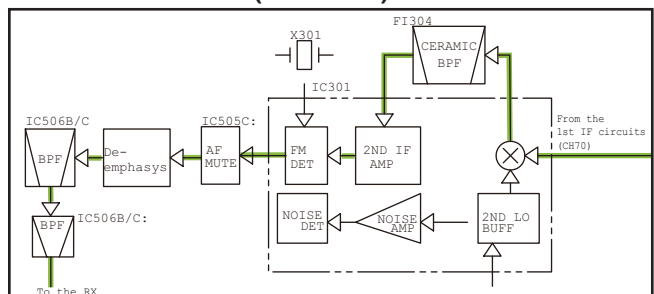
The 1st IF signal is mixed with the 21.25 MHz 2nd LO signal, which is generated by the reference frequency oscillator (X101), resulting in the 450 kHz 2nd IF signal. The 2nd IF signal is passed through the 2nd IF filter (FI304) to remove the sideband noise. The filtered signal is amplified by the 2nd IF AMP, and demodulated by the quadrature detector with discriminator (X301).

### DSC DECODING CIRCUITS (MAIN UNIT)

The demodulated AF (FSK: Frequency Shift Keying) signal is applied to the DSC decoder (LOGIC UNIT: IC12, pin 2), which converts the sub audible tone signal into the serial data, through the LPF (IC514, pins 10, 8) and DSC SW (LOGIC UNIT: IC3, pins 7, 1).

The serial data is applied to the CPU (LOGIC UNIT: IC1, pin 103) to control the transceiver (emergency alarm, DSC indication and so on.).

#### • 2ND IF CIRCUITS (For CH70)



## RX AF CIRCUITS (MAIN UNIT)

The demodulated AF signal from the AF SW (IC882) is passed through the AF MUTE SW (IC505, pins 1, 2), de-emphasis circuit (R551 and C236), BPF (IC506, pins 9, 8 and pins 6, 7) and AF MUTE SW (IC906, pins 9, 8), and then applied to the noise canceller IC (IC901, pin 31).

The processed AF signal is output from pin 37, and passed through the AF SW (IC906, pins 1, 2).

### • When the AF signal is output to the front panel speaker, external speaker, HM-205B or HM-205RB

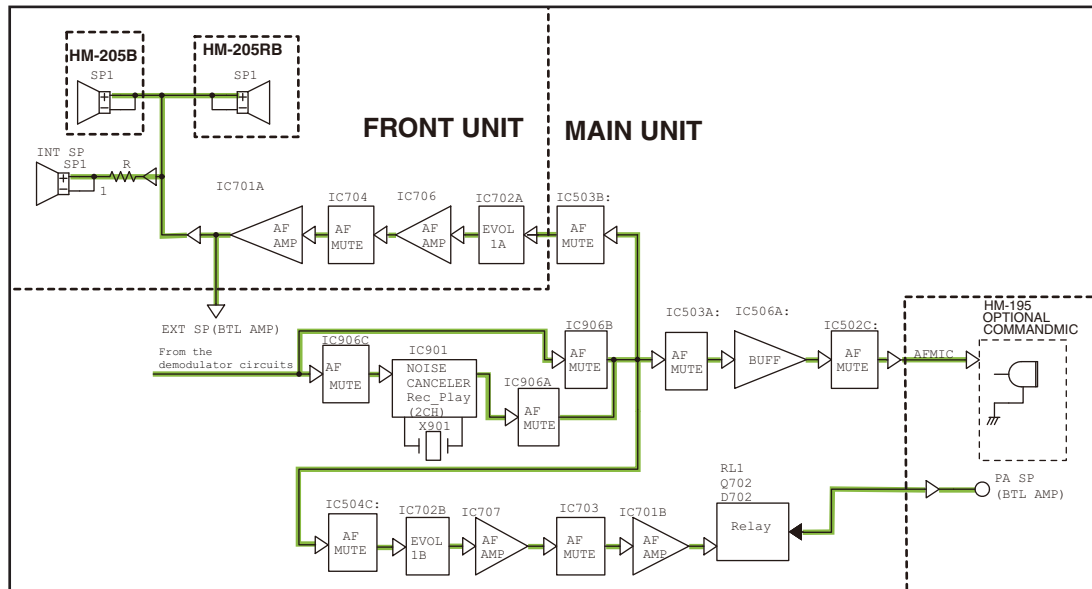
The RX AF signal from the AF SW (IC906, pin 2) is passed through the AF MUTE SW (IC504, pins 8, 9) and applied to the D/A converter (IC702, pin 8) to be adjusted in level. The level-adjusted signal is output from pin 7, and amplified by the AF AMP (IC707). The amplified signal is AF power AMP (IC701, pin 1), through the AF MUTE SW (IC703, pins 3, 1).

The amplified signal is output to the internal speaker (CHAS-SIS: SP1), external speaker, HM-205 or HM-205RB.

### • When the AF signal is output to the optional HM-195

The RX AF signal from the AF SW (IC906, pin 2) is passed through the AF MUTE SW (IC503, pins 2, 1) and amplified by the buffer (IC506, pins 4, 1), and then output to the HM-195, through the AF mute SW (IC502, pins 9, 8).

## • RX AF CIRCUITS



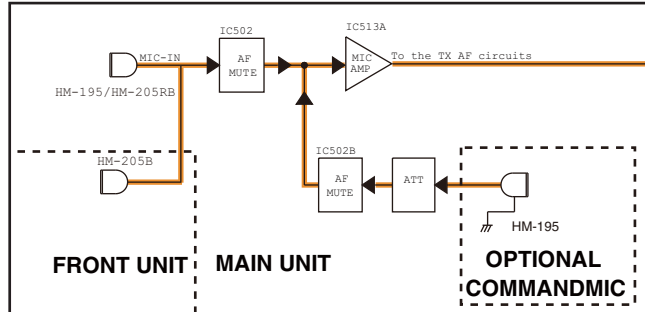
## 4-2 TRANSMIT CIRCUITS

### TX AF CIRCUITS (MAIN UNIT)

The AF signal from the microphone (MIC signal) is passed through the MIC mute SW (IC502, pins 1, 2), and then applied to the MIC AMP (IC513, pin ).

The MIC signal from the HM-195/HM-205RB is passed through the ATT (R531 and R532), MIC mute SW (IC502B, pins 4, 3), and then applied to the MIC AMP (IC513, pin ).

#### • MIC AMP CIRCUITS



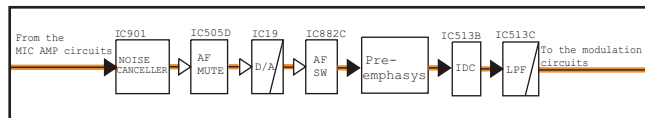
### TX AF CIRCUITS (MAIN UNIT)

The amplified MIC signal is applied to the noise canceller IC (IC901, pin 28).

The processed MIC signal is output from pin 36, passed through the AF SW (IC505, pins 8, 9), and then applied to the D/A converter (IC19, pin 22) to be adjusted in level.

The level-adjusted AF signal is output from pin 23, and passed through the AF MUTE SW (IC882, pins 8, 9), and then applied to the IDC AMP (IC513B, pin 6), which limits the amplitude of MIC signal to prevent the over deviation. The amplitude-limited signal is output from pin 7, and passed through the LPF (IC513C, pins 10, 8), and then applied to the modulation circuits.

#### • TX AF CIRCUITS

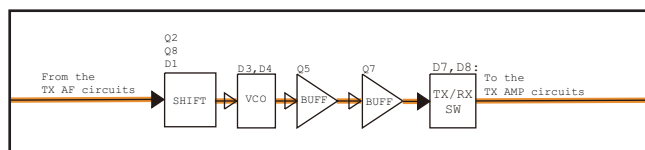


### MODULATION CIRCUITS (MAIN UNIT)

The MIC signal from the TX AF circuits is applied to the VCO (Q3, Q4 and D2–D4). The modulation signal is applied to D2, to obtain Frequency Modulation.

The modulated VCO output signal is passed through the buffers (Q5 and Q7), and then applied to the TX AMP circuits as a TX signal, through the LO SW (D7).

#### • MODULATION CIRCUITS



### TX AMP CIRCUITS (MAIN UNIT)

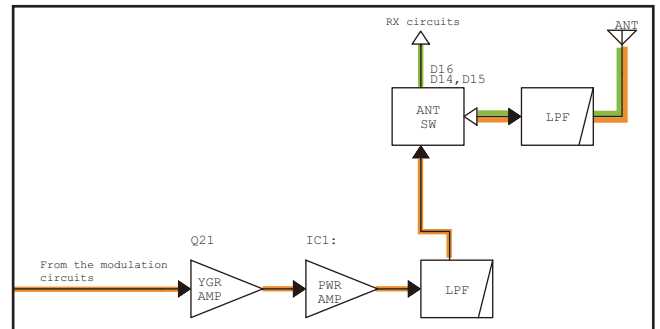
The TX signal is amplified by the YGR (Q21) and power AMP (IC1), and then passed through the TX output power detector (D12 and D13), ANT SW (D14), and LPF (L22, L23 and C104–C106), before being sent to the antenna.

### APC CIRCUITS (MAIN UNIT)

The voltage produced at the LPF (L21, C101 and C102) is rectified by D12 and D13, and is used as the TX power sensing voltage.

The voltage is applied to the APC AMP (IC2, pin 3), and the output voltage controls the gate bias voltage of power AMP (IC1) to keep the TX output power constant.

#### • TX AMP CIRCUITS



### 4-3 FREQUENCY SYNTHESIZER (MAIN UNIT)

#### • VCOs

##### TX VCO

The TX VCO (Q3, Q4 and D2–D4) generates both the TX signal and 1st LO signal for CH70.

While receiving, the LO signal is applied to the 1st IF mixer for CH70 (Q302), through the LO SW (D8) and LPF (L66, L65 and C393).

While transmitting, the LO signal is applied to the TX AMP circuits, through the LO SW (D7).

##### RX VCO

The RX VCO (Q72 and D51–D53) generates the 1st LO signal for MAIN channels.

The LO signal is applied to the 1st IF mixer for MAIN channels (D202), through the LPF (L221, L222 and C262).

#### • PLL

##### TX VCO

A portion of VCO output signal is passed through two buffers (Q5 and Q6), and then fed back to the PLL IC (IC101, pin 1), through the ATT (R33–R35) and LPF (L8, C74 and C75).

##### RX VCO

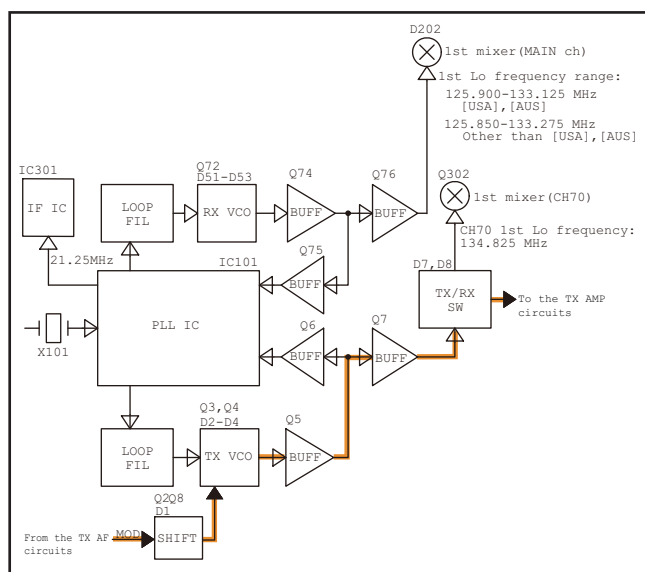
A portion of VCO output signal is passed through two buffers (Q74 and Q75), and then fed back to the PLL IC (IC101, pin 16), through the ATT (R47–R49) and LPF (L6, C77 and C78).

The PLL IC (IC101) phase-compares the outputs of the reference frequency oscillator (TCXO: X101) and VCO, and the phase-difference is output as the charge pump current.

The current is passed through the loop filter (TX VCO: R1–R3, C1–C3, and C10, RX VCO: R161, R171, C156–C158) to be converted into the lock voltage that controls the oscillating frequency of VCO.

When the oscillation frequency drifts, its phase changes from that of the reference frequency, causing a lock voltage change to compensate for the drift in the VCO oscillating frequency.

### • FREQUENCY SYNTHESIZER CIRCUITS



### 4-4 AIS RECEIVER (AIS UNIT: UX-231)

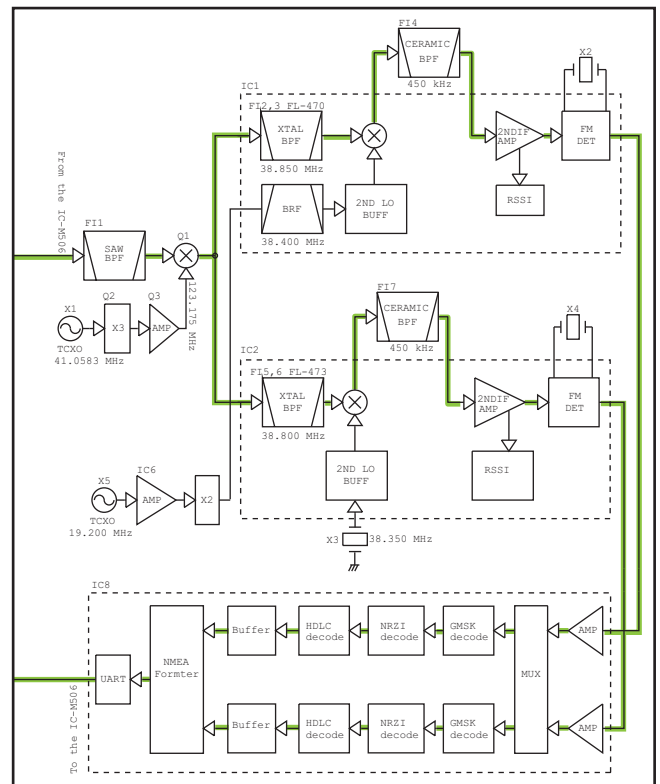
The RX signal from the RF AMP (Q101) is applied to the AIS UNIT, through J5 on the MAIN UNIT of IC-M506.

The applied signal is passed through the SAW filter (F11) and applied to the 1st mixer (Q1), and mixed with the 123.175 MHz 1st LO signal, resulting in the 1st IF signal (38.85 MHz for AIS 1, 38.8 MHz for AIS 2).

The 1st IF signal is applied to the IF ICs (IC1 for AIS 1, IC2 for AIS 2), and mixed with the 2nd LO signal (38.4 MHz for AIS 1, 38.35 MHz for AIS 2), resulting in the 450 kHz 2nd IF signal. The 2nd IF signal is passed through the 2nd IF filter (F14 for AIS 1, F17 for AIS 2) to remove the sideband noise. The filtered signal is amplified by the 2nd IF AMP, and demodulated by the quadrature detector with discriminator (X2 for AIS 1, X4 for AIS 2).

The demodulated AF signal is applied to the AIS baseband processor (IC8). The processed AIS data is applied to the IC-M506, through J5 on the MAIN UNIT of IC-M506.

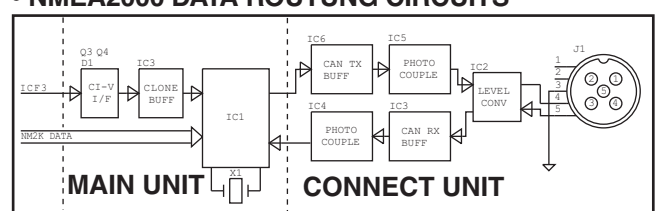
### • AIS RECEIVE CIRCUITS



### 4-5 NMEA2000 DATA ROUTING CIRCUITS (NMEA2000 UNIT: UX-232)

The AIS and GPS position data from the external devices is sent to the IC-M506, through the NMEA2000 network.

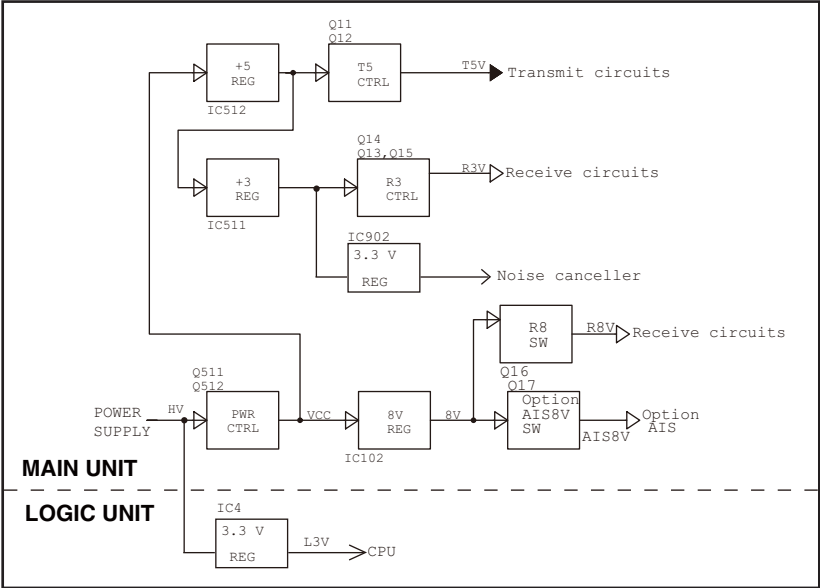
### • NMEA2000 DATA ROUTING CIRCUITS





4-6 VOLTAGE BLOCK DIAGRAM

Voltage from the power supply is routed throughout the transceiver, through regulators and switches.



## SECTION 5

## PARTS LIST

## [MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1150002510	IC RA33H1516M1-325	T	67.3/59.2
IC2	1110006670	S.IC NJM2730F-TE1-#ZZZB	T	72.6/24.6
IC19	1110007550	S.IC R2A20178NP	T	90.8/24.3
IC101	1130016080	S.IC GP214D <SEI>	B	32.0/10.8
IC102	1180004410	S.REG NJM2835DL1-08-TE1-#ZZZB	T	111.8/9.1
IC201	1110007320	S.IC NJM2591V-TE1-#ZZZB	T	90.8/14.1
IC301	1110007320	S.IC NJM2591V-TE1-#ZZZB	B	42.2/20.2
IC502	1130015760	S.IC TC74VHC4066AFK(EK)	T	62.2/26.5
IC503	1130015760	S.IC TC74VHC4066AFK(EK)	T	56.6/26.5
IC504	1130015760	S.IC TC74VHC4066AFK(EK)	T	51.0/26.5
IC505	1130015760	S.IC TC74VHC4066AFK(EK)	T	63.5/39.0
IC506	1110006470	S.IC LMV324IPWR	B	8.3/44.5
IC511	1180003480	S.REG NJU7772F33-TE1-#ZZZB	B	81.7/22.3
IC512	1180002781	REG KIA7805API-U/PPF	B	92.8/11.4
IC513	1110006470	S.IC LMV324IPWR	B	21.6/19.3
IC514	1110006470	S.IC LMV324IPWR	B	8.0/12.6
IC701	1110008650	IC LA4628-E	B	11.4/19.4
IC702	1110007200	S.IC M61545AFP<DF0R	B	30.0/41.2
IC703	1130007021	S.IC TC7S66FU(T85LF)	B	15.9/21.3
IC704	1130007021	S.IC TC7S66FU(T85LF)	B	12.9/15.9
IC705	1110006490	S.IC LMV321IDCKR	B	58.9/20.7
IC706	1110006490	S.IC LMV321IDCKR	B	50.1/20.7
IC707	1110006490	S.IC LMV321IDCKR	B	38.2/37.9
IC801	1130017400	S.IC MC74HC4094ADTR2G	T	39.7/30.8
IC802	1130017400	S.IC MC74HC4094ADTR2G	B	54.4/39.9
IC881	1110006740	S.IC LMV358IPWR	B	41.0/41.6
IC882	1130015760	S.IC TC74VHC4066AFK(EK)	B	41.0/46.6
IC901	1190004010	S.IC LC703200AW-8C04-H	B	56.9/53.6
IC902	1180003980	S.REG XC6221A152MR-G	B	48.9/53.6
IC903	1180004200	S.REG XC6221A152MR-G	B	51.0/39.0
IC904	1130016740	S.IC LE25U40CMC-AH	B	
IC905	1130016740	S.IC LE25U40CMC-AH	B	
IC906	1130015760	S.IC TC74VHC4066AFK(EK)	T	
Q2	1590004070	S.TRA LDTC144EET1G <SLVJ>	T	84.6/44.1
Q3	1530004390	S.TRA 2SC5065-Y(T85LF)	T	80.4/34.6
Q4	1530004390	S.TRA 2SC5065-Y(T85LF)	T	84.2/33.9
Q5	1530003950	S.TRA KTC4080 Y-RTK/P	T	77.6/39.6
Q6	1530003950	S.TRA KTC4080 Y-RTK/P	T	75.1/36.7
Q7	1530003950	S.TRA KTC4080 Y-RTK/P	T	74.6/44.1
Q8	1590004050	S.TRA LDTA144EET1G <SLVJ>	T	86.2/46.6
Q9	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	86.8/48.9
Q11	1510001090	S.TRA KTA2015Y-RTK/P	B	53.1/59.9
Q12	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	50.7/59.6
Q13	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	76.9/10.9
Q14	1510001090	S.TRA KTA2015Y-RTK/P	B	82.7/11.1
Q15	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	82.7/7.6
Q16	1510001090	S.TRA KTA2015Y-RTK/P	B	79.7/5.6
Q17	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	82.0/5.3
Q21	1530002920	S.TRA 2SC4226-T1 R25	T	57.7/59.1
Q22	1590004060	S.TRA LDTC114EET1G <SLVJ>	T	63.5/61.5
Q23	1590004060	S.TRA LDTC114EET1G <SLVJ>	T	71.9/57.0
Q31	1560000541	S.FET 2SK880-Y(T5RICOMF)	B	91.0/26.0
Q32	1560000541	S.FET 2SK880-Y(T5RICOMF)	B	94.9/21.6
Q70	1590004060	S.TRA LDTC114EET1G <SLVJ>	T	104.0/38.4
Q71	1530003900	S.TRA KTC4075 BL-RTK/P	T	106.9/38.6
Q72	1560000990	S.FET PMBFJ310 <RYO>	T	115.0/46.6
Q74	1530002920	S.TRA 2SC4226-T1 R25	T	115.6/41.2
Q75	1530003950	S.TRA KTC4080 Y-RTK/P	T	111.7/35.0
Q76	1530002920	S.TRA 2SC4226-T1 R25	T	117.0/35.4
Q101	1530003340	S.TRA 2SC3357-T1 RF 0	T	106.0/60.5
Q202	1560000990	S.FET PMBFJ310 <RYO>	T	127.0/26.2
Q203	1560000990	S.FET PMBFJ310 <RYO>	T	123.7/26.2
Q205	1530003950	S.TRA KTC4080 Y-RTK/P	T	104.8/19.4
Q302	1580000731	S.FET 3SK293(T85LF)	B	97.1/52.7
Q305	1530003950	S.TRA KTC4080 Y-RTK/P	B	98.2/21.9
Q391	1510001090	S.TRA KTA2015Y-RTK/P	B	86.8/3.5
Q392	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	84.3/5.3
Q501	1520000380	TRA 2SB1143 S		
Q502	1590003800	S.TRA KTC811U-GR-RTK/P	B	10.6/49.8
Q511	1590004070	S.TRA LDTC144EET1G <SLVJ>	B	9.8/40.5
Q512	1590004710	S.FET TPC6111(T85LF)	B	8.3/37.1
Q702	1590004060	S.TRA LDTC114EET1G <SLVJ>	T	27.7/24.5
D1	1750002780	S.DIO RN142GT2R	T	82.7/43.3
D2	1750001790	S.DIO 1SS390 TE61	T	84.6/42.5
D3	1720000701	S.VAR 1SV305(TPL3F)	T	81.8/38.4
D4	1720000760	S.VAR 1SV311(TPL3)	T	81.8/39.6
D7	1750002780	S.DIO RN142GT2R	B	72.3/52.7
D8	1750002780	S.DIO RN142GT2R	B	74.1/52.0
D11	1750002170	S.DIO DB2S31400L	T	73.1/58.6
D12	1750002910	S.DIO BAT68-04W H6327 <RYOYO>	T	73.0/61.0
D13	1750002910	S.DIO BAT68-04W H6327 <RYOYO>	T	78.2/59.4
D14	1750002190	S.DIO JDP2S12CR(T85LQ)	T	88.1/63.1
D15	1750002190	S.DIO JDP2S12CR(T85LQ)	T	96.5/60.0
D16	1750002910	S.DIO BAT68-04W H6327 <RYOYO>	T	98.8/60.5
D21	1750001770	S.VAR 1SV323(TPH3F)	T	77.7/17.8
D51	1720000701	S.VAR 1SV305(TPL3F)	T	109.2/46.1
D52	1720000701	S.VAR 1SV305(TPL3F)	T	109.2/47.5
D53	1750002780	S.DIO RN142GT2R	T	104.7/41.7

## [MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
D201	1750002780	S.DIO RN142GT2R	[#01]	T 114.8/58.2
	1750002780	S.DIO RN142GT2R	[#10]	
	1750002780	S.DIO RN142GT2R	[#11]	
	1750002780	S.DIO RN142GT2R	[#20]	
	1750002780	S.DIO RN142GT2R	[#21]	
	1750002780	S.DIO RN142GT2R	[#30]	
	1750002780	S.DIO RN142GT2R	[#31]	
	1750002780	S.DIO RN142GT2R	[#40]	
	1750002780	S.DIO RN142GT2R	[#41]	
	1750002780	S.DIO RN142GT2R	[#50]	
D202	1750003030	S.DIO HSMS-2829-TR1G	T	126.4/40.7
D501	1790001990	S.VAR EZJP0V080DA	T	29.9/53.7
D502	1790001990	S.VAR EZJP0V080DA	T	28.0/53.7
D503	1790001990	S.VAR EZJP0V080DA	T	27.0/65.7
D504	1790001990	S.VAR EZJP0V080DA	T	30.2/65.7
D601	1790000700	DIO DSA3A1		
D702	1750001810	S.DIO L1SS400T1G <SLVJ>	T	27.1/27.1
FI201	2040002060	S.SAW HDF160F SMD-3 <SEI>	T	119.1/60.4
FI202	2030001110	S.MON TMK5288 (IMD)30.15 MHz (FL-472)	T	117.5/24.7
FI203	2030001120	S.MON TMK5295 30.15 MHz (FL-475)	T	108.3/24.7
FI204	2020002480	S.CER LTWC450E1 <JJE>	T	99.8/7.9
FI301	2040002060	S.SAW HDF160F SMD-3 <SEI>	B	97.2/61.1
FI302	2030000930	S.MON 21L715A4(IMD) 21.7 MHz (FL-450)	B	96.0/40.5
FI303	2030000940	S.MON 21L715A3 21.7 MHz (FL-451)	B	96.0/31.4
FI304	2020002480	S.CER LTWC450E1 <JJE>	T	80.9/7.9
X101	6050011740	S.XTA CR-766 TSS-6035B 21.250 MHz	T	83.9/19.3
X201	6070000310	S.DIS JTBM450CX70 <JJE>	T	120.0/5.0
X202	6050013740	S.XTA CR-967 DSX321G 29.7 MHz	T	107.6/14.4
X301	6070000310	S.DIS JTBM450CX70 <JJE>	T	90.1/5.9
X901	6060000880	S.CER CSTCE8M19G55	B	63.7/44.2
L1	6200003711	S.COI NLV25T-2R7J	T	87.7/36.2
L2	6200011410	S.COI C2520C-82NG-A	T	84.7/38.3
L3	6200013750	S.COI MLK1005SR10JT	T	75.6/40.8
L4	6200013750	S.COI MLK1005SR10JT	T	73.7/35.3
L5	6200013750	S.COI MLK1005SR10JT	T	73.2/45.6
L6	6200011600	S.COI MLG1608B 82NJ-T	T	98.4/27.4
L8	6200010840	S.COI MLG1608B 56NJ-T	T	82.7/26.8
L11	6200013750	S.COI MLK1005SR10JT	T	57.3/60.9
L20	6200010770	S.COI C2520C-R68G-A	T	84.7/56.5
L21	6200014320	S.COI 0.80-3.0-5TR 41.0N <COMO>	T	82.5/63.2
L22	6200014330	S.COI 0.80-2.7-5TR 35.0N <COMO>	T	99.5/66.8
L23	6200014330	S.COI 0.80-2.7-5TR 35.0N <COMO>	T	106.9/63.0
L24	6200012700	S.COI 0.50-2.0-6TL 35.0N <COMO>	T	92.5/61.4
L65	6200013740	S.COI MLG1608S R47J-T	B	90.5/52.1
L66	6200009680	S.COI MLG1608B 47NJ-T	B	87.3/52.1
L70	6200003101	S.COI NLV32T-3R9J	T	105.7/46.7
L71	6200011800	S.COI C2520C-47NG-A	T	109.5/43.4
L72	6200003101	S.COI NLV32T-3R9J	T	118.2/45.1
L73	6200009560	S.COI MLG1608B R10J-T	T	113.7/40.4
L74	6200009560	S.COI MLG1608B R10J-T	T	109.8/35.0
L76	6200009560	S.COI MLG1608B R10J-T	T	115.1/33.4
L101	6200010000	S.COI C2012C-56NG-A	T	101.1/54.4
L102	6200006991	S.COI ELJRE 56NGFA	T	109.2/59.2
L111	6200010350	S.COI C2012C-R27G-A	T	112.8/61.7
L112	6200010350	S.COI C2012C-R27G-A	B	108.6/65.3
L113	6200010350	S.COI C2012C-R27G-A	B	111.6/64.3
L201	6200011210	S.COI C2012C-1R0J-A	[#01]	T 112.8/56.1
	6200011210	S.COI C2012C-1R0J-A	[#10]	
	6200011210	S.COI C2012C-1R0J-A	[#11]	
	6200011210	S.COI C2012C-1R0J-A	[#20]	
	6200011210	S.COI C2012C-1R0J-A	[#21]	
	6200011210	S.COI C2012C-1R0J-A	[#30]	
	6200011210	S.COI C2012C-1R0J-A	[#31]	
	6200011210	S.COI C2012C-1R0J-A	[#40]	
	6200011210	S.COI C2012C-1R0J-A	[#41]	
	6200011210	S.COI C2012C-1R0J-A	[#50]	
L206	6130003000	S.COI #617DB-1714=P3	T	126.4/45.8
L207	6130003000	S.COI #617DB-1714=P3	T	126.4/34.8
L208	6200001831	S.COI NLV32T-100J	T	130.2/26.8
L211	6200009970	S.COI C2012C-R39G-A	T	128.1/23.4
L221	6200011600	S.COI MLG1608B 82NJ-T	B	117.3/34.6
L222	6200009620	S.COI MLG1608B 68NJ-T	B	114.5/34.6
L311	6200011200	S.COI C2012C-R82J-A	B	96.7/48.2
L315	6200009141	S.COI NLV25T-6R8J	T	93.2/20.2
L901	6200002861	S.COI NLV25T-4R7J	B	41.0/35.1
L902	6200002861	S.COI NLV25T-4R7J	B	41.0/37.6
L903	6200002861	S.COI NLV25T-4R7J	B	44.5/46.6
R1	7030010040	S.RES ERJ2GEJ-JPW	T	90.2/27.7
R2	7030008370	S.RES ERJ2GEJ 561 X (560)	T	91.5/28.1
R3	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	93.3/28.1
R6	7030009320	S.RES ERJ2GEJ 4R7 X (4.7)	T	76.5/43.5
R7	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	88.0/45.6
R8	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	87.7/44.2
R9	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	87.3/42.8
R11	7030005000	S.RES ERJ2GEJ 471 X (470)	T	84.2/46.6
R12	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	79.5/45.3
R13	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	81.2/44.4
R14	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	79.5/44.4

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R15	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	80.8/43.0
R16	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	84.2/47.5
R21	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	78.6/34.4
R22	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	86.0/34.3
R23	7030009160	S.RES ERJ2GEJ 181 X (180)	T	82.4/33.0
R25	7030008370	S.RES ERJ2GEJ 561 X (560)	T	80.1/36.6
R26	7030005010	S.RES ERJ2GEJ 681 X (680)	T	76.9/42.3
R27	7030005070	S.RES ERJ2GEJ 683 X (68K)	T	78.2/37.8
R31	7030005000	S.RES ERJ2GEJ 471 X (470)	T	73.3/34.0
R32	7030005070	S.RES ERJ2GEJ 683 X (68K)	T	76.9/37.1
R33	7030007270	S.RES ERJ2GEJ 151 X (150)	T	75.8/34.6
R34	7030009200	S.RES ERJ2GEJ 390 X (39)	T	75.8/33.7
R35	7030007270	S.RES ERJ2GEJ 151 X (150)	T	77.1/34.2
R36	7030005000	S.RES ERJ2GEJ 471 X (470)	T	73.2/47.3
R37	7030007350	S.RES ERJ2GEJ 393 X (39K)	T	74.7/42.3
R41	7030004980	S.RES ERJ2GEJ 101 X (100)	T	83.6/25.3
R46	7030004980	S.RES ERJ2GEJ 101 X (100)	T	96.2/28.2
R47	7030007270	S.RES ERJ2GEJ 151 X (150)	T	106.4/32.8
R48	7030009200	S.RES ERJ2GEJ 390 X (39)	T	107.6/32.4
R49	7030007270	S.RES ERJ2GEJ 151 X (150)	T	108.9/32.8
R51	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	53.7/57.9
R52	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	51.2/61.2
R53	7030005000	S.RES ERJ2GEJ 471 X (470)	B	77.2/12.5
R54	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	82.9/9.1
R55	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	84.4/8.1
R56	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	79.7/3.6
R57	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	81.4/3.6
R58	7030013860	S.RES ERJ14YJ6R8U	B	39.3/10.9
R61	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	73.8/53.0
R62	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	62.3/57.1
R63	7030010040	S.RES ERJ2GEJ-JPW	T	61.8/58.6
R64	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	58.2/57.3
R65	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	60.1/59.5
R66	7030005530	S.RES ERJ2GEJ 100 X (10)	T	56.9/57.1
R67	7030004980	S.RES ERJ2GEJ 101 X (100)	T	60.4/61.2
R69	7030010040	S.RES ERJ2GEJ-JPW	T	55.7/61.2
R71	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	78.1/62.5
R72	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	76.4/62.5
R73	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	84.2/59.4
R74	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	82.5/59.4
R75	7030007530	S.RES ERJ8ENF 1800V (180)	T	80.2/55.4
R76	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	75.2/58.3
R78	7030007280	S.RES ERJ2GEJ 331 X (330)	T	70.5/58.2
R79	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	69.9/59.6
R80	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	69.9/61.4
R82	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	67.3/61.4
R83	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	68.3/57.0
R84	7030007250	S.RES ERJ2GEJ 220 X (22)	T	66.6/57.0
R87	7030005000	S.RES ERJ2GEJ 471 X (470)	T	65.6/62.3
R91	7030005080	S.RES ERJ2GEJ 823 X (82K)	T	108.7/73.1
R101	7030005530	S.RES ERJ2GEJ 100 X (10)	T	102.6/60.9
R102	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	103.0/59.6
R103	7030009270	S.RES ERJ2GEJ 821 X (820)	T	103.1/56.9
R104	7030005530	S.RES ERJ2GEJ 100 X (10)	T	106.2/56.9
R105	7030007280	S.RES ERJ2GEJ 331 X (330)	T	112.1/59.8
R106	7030005580	S.RES ERJ2GEJ 560 X (56)	T	109.0/61.4
R111	7030007270	S.RES ERJ2GEJ 151 X (150)	T	113.1/64.2
R112	7030007270	S.RES ERJ2GEJ 151 X (150)	B	110.8/65.9
R113	7030007270	S.RES ERJ2GEJ 151 X (150)	B	112.6/65.9
R116	7410001150	S.ARR EXB28V471JX	T	85.0/22.9
R117	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	90.0/19.9
R118	7030010040	S.RES ERJ2GEJ-JPW	T	90.0/20.8
R119	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	78.8/19.2
R120	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	77.5/21.1
R161	7030010040	S.RES ERJ2GEJ-JPW	T	96.8/26.2
R162	7030008370	S.RES ERJ2GEJ 561 X (560)	T	98.1/25.8
R163	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	95.3/23.6
R164	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	95.1/19.6
R165	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	95.5/19.9
R171	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	102.8/42.0
R172	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	118.1/47.7
R173	7030004970	S.RES ERJ2GEJ 470 X (47)	T	112.8/43.7
R174	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	108.4/40.0
R176	7030005000	S.RES ERJ2GEJ 471 X (470)	T	103.7/33.2
R181	7030005070	S.RES ERJ2GEJ 683 X (68K)	T	117.4/40.9
R182	7030005010	S.RES ERJ2GEJ 681 X (680)	T	118.3/39.8
R183	7030005070	S.RES ERJ2GEJ 683 X (68K)	T	110.9/37.8
R184	7030007280	S.RES ERJ2GEJ 331 X (330)	T	108.7/35.3
R185	7030004980	S.RES ERJ2GEJ 101 X (100)	T	117.4/38.8
R186	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	117.0/37.4
R187	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	116.1/38.3
R188	7030005000	S.RES ERJ2GEJ 471 X (470)	T	114.3/35.8
R189	7030004980	S.RES ERJ2GEJ 101 X (100)	T	113.3/32.9
R191	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	104.1/40.0
R192	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	103.7/42.0
R193	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	106.0/41.5
R201	7030009200	S.RES ERJ2GEJ 390 X (39)	[#01]	T 113.8/59.7
	7030009200	S.RES ERJ2GEJ 390 X (39)	[#10]	
	7030009200	S.RES ERJ2GEJ 390 X (39)	[#11]	
	7030009200	S.RES ERJ2GEJ 390 X (39)	[#20]	
	7030009200	S.RES ERJ2GEJ 390 X (39)	[#21]	
	7030009200	S.RES ERJ2GEJ 390 X (39)	[#30]	
	7030009200	S.RES ERJ2GEJ 390 X (39)	[#31]	
	7030009200	S.RES ERJ2GEJ 390 X (39)	[#40]	
	7030009200	S.RES ERJ2GEJ 390 X (39)	[#41]	
	7030009200	S.RES ERJ2GEJ 390 X (39)	[#50]	

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION			M.	H/V LOCATION
R202	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)	[#01]	T	110.2/55.5
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)	[#10]		
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)	[#11]		
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)	[#20]		
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)	[#21]		
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)	[#30]		
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)	[#31]		
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)	[#40]		
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)	[#41]		
	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)	[#50]		
R211	7030005710	S.RES	ERJ2GEJ 121 X (120)		T	126.0/52.8
R212	7030007250	S.RES	ERJ2GEJ 220 X (22)		T	127.8/28.5
R213	7030010040	S.RES	ERJ2GEJ-JPW		T	123.1/57.5
R214	7030003860	S.RES	ERJ3GE JPW V		T	123.7/52.8
R221	7030005530	S.RES	ERJ2GEJ 100 X (10)		T	129.0/19.1
R222	7030007300	S.RES	ERJ2GEJ 332 X (3.3K)		T	129.0/20.0
R223	7030005530	S.RES	ERJ2GEJ 100 X (10)		T	123.6/23.4
R224	7030005010	S.RES	ERJ2GEJ 681 X (680)		T	102.9/24.2
R225	7030005090	S.RES	ERJ2GEJ 104 X (100K)		T	104.3/21.2
R226	7030007300	S.RES	ERJ2GEJ 332 X (3.3K)		T	101.0/18.0
R227	7030004990	S.RES	ERJ2GEJ 221 X (220)		T	105.1/17.6
R229	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)		B	85.2/51.0
R231	7030004970	S.RES	ERJ2GEJ 470 X (47)		T	113.0/14.6
R232	7030008410	S.RES	ERJ2GEJ 392 X (3.9K)		T	112.9/4.9
R233	7030005000	S.RES	ERJ2GEJ 471 X (470)		T	114.2/4.5
R234	7030005530	S.RES	ERJ2GEJ 100 X (10)		T	117.6/10.9
R241	7030005220	S.RES	ERJ2GEJ 223 X (22K)		T	106.2/10.9
R251	7030005170	S.RES	ERJ2GEJ 474 X (470K)		T	107.5/5.8
R252	7030009270	S.RES	ERJ2GEJ 821 X (820)		T	108.8/2.6
R253	7030005060	S.RES	ERJ2GEJ 333 X (33K)		T	107.4/3.1
R256	7030005050	S.RES	ERJ2GEJ 103 X (10K)		T	104.7/7.5
R257	7030005050	S.RES	ERJ2GEJ 103 X (10K)		T	104.7/9.2
R301	7030007270	S.RES	ERJ2GEJ 151 X (150)		B	96.3/55.8
R311	7030005170	S.RES	ERJ2GEJ 474 X (470K)		B	95.3/53.1
R312	7030005090	S.RES	ERJ2GEJ 104 X (100K)		B	94.9/54.5
R313	7030005100	S.RES	ERJ2GEJ 154 X (150K)		B	99.2/53.2
R314	7030007350	S.RES	ERJ2GEJ 393 X (39K)		B	100.1/53.2
R321	7030005530	S.RES	ERJ2GEJ 100 X (10)		B	93.5/50.3
R322	7030007300	S.RES	ERJ2GEJ 332 X (3.3K)		B	97.1/46.6
R323	7030007570	S.RES	ERJ2GEJ 122 X (1.2K)		B	95.4/47.7
R324	7030005030	S.RES	ERJ2GEJ 152 X (1.5K)		B	97.4/25.8
R325	7030005090	S.RES	ERJ2GEJ 104 X (100K)		B	100.0/21.3
R326	7030007300	S.RES	ERJ2GEJ 332 X (3.3K)		B	100.0/19.6
R327	7030007280	S.RES	ERJ2GEJ 331 X (330)		B	98.7/20.0
R331	7030008410	S.RES	ERJ2GEJ 392 X (3.9K)		T	92.1/9.9
R332	7030005000	S.RES	ERJ2GEJ 471 X (470)		B	89.0/11.1
R333	7030005030	S.RES	ERJ2GEJ 152 X (1.5K)		T	89.4/17.5
R334	7030004970	S.RES	ERJ2GEJ 470 X (47)		T	92.5/17.9
R361	7030010040	S.RES	ERJ2GEJ-JPW		B	85.2/52.0
R391	7030005220	S.RES	ERJ2GEJ 223 X (22K)		B	84.8/3.2
R392	7030007300	S.RES	ERJ2GEJ 332 X (3.3K)		B	86.3/5.3
R501	7030012300	S.RES	ERJ2RKF 1502X (15K)		B	14.6/47.8
R502	7030011660	S.RES	ERJ2RKF 1002 (10K)		B	12.9/47.8
R503	7030011660	S.RES	ERJ2RKF 1002 (10K)		B	12.9/48.7
R504	7030007280	S.RES	ERJ2GEJ 331 X (330)		B	12.9/49.6
R505	7030007280	S.RES	ERJ2GEJ 331 X (330)		B	12.9/50.5
R506	7030005120	S.RES	ERJ2GEJ 102 X (1K)		B	10.6/47.7
R511	7030011150	S.RES	ERJ2GEJ 2R7 X (2.7)		T	29.5/56.0
R512	7030011150	S.RES	ERJ2GEJ 2R7 X (2.7)		T	25.7/56.0
R513	7030011150	S.RES	ERJ2GEJ 2R7 X (2.7)		T	28.5/56.0
R514	7030011150	S.RES	ERJ2GEJ 2R7 X (2.7)		T	28.1/63.5
R515	7030011150	S.RES	ERJ2GEJ 2R7 X (2.7)		T	29.1/63.5
R516	7030005160	S.RES	ERJ2GEJ 105 X (1M)		B	92.3/28.1
R517	7030005240	S.RES	ERJ2GEJ 473 X (47K)		B	90.4/24.0
R520	7030005090	S.RES	ERJ2GEJ 104 X (100K)		B	43.2/24.0
R521	7030005160	S.RES	ERJ2GEJ 105 X (1M)		B	38.5/23.8
R522	7030005160	S.RES	ERJ2GEJ 105 X (1M)		B	38.5/24.7
R524	7030005160	S.RES	ERJ2GEJ 105 X (1M)		B	45.1/18.2
R525	7030005160	S.RES	ERJ2GEJ 105 X (1M)		B	39.1/19.9
R526	7030005160	S.RES	ERJ2GEJ 105 X (1M)		T	47.9/36.0
R527	7030005040	S.RES	ERJ2GEJ 472 X (4.7K)		B	42.5/25.8
R528	7030005530	S.RES	ERJ2GEJ 100 X (10)		B	42.5/26.7
R529	7030005060	S.RES	ERJ2GEJ 333 X (33K)		T	59.2/36.0
R530	7030005600	S.RES	ERJ2GEJ 273 X (27K)		T	60.1/36.0
R531	7030007300	S.RES	ERJ2GEJ 332 X (3.3K)		B	37.2/19.9
R532	7030007290	S.RES	ERJ2GEJ 222 X (2.2K)		B	39.1/18.1
R533	7030005530	S.RES	ERJ2GEJ 100 X (10)		T	58.0/39.3
R534	7030009140	S.RES	ERJ2GEJ 272 X (2.7K)		B	42.2/14.3
R535	7030004980	S.RES	ERJ2GEJ 101 X (100)		B	33.5/15.7
R537	7030005090	S.RES	ERJ2GEJ 104 X (100K)		B	40.6/15.8
R539	7030005160	S.RES	ERJ2GEJ 105 X (1M)		T	63.0/30.3
R540	7030005160	S.RES	ERJ2GEJ 105 X (1M)		T	60.8/22.4
R541	7030005090	S.RES	ERJ2GEJ 104 X (100K)		T	60.7/30.7
R544	7030005090	S.RES	ERJ2GEJ 104 X (100K)		T	63.5/21.1
R545	7030005110	S.RES	ERJ2GEJ 224 X (220K)		T	65.3/28.5
R547	7030005090	S.RES	ERJ2GEJ 104 X (100K)		B	46.0/18.2
R549	7030005090	S.RES	ERJ2GEJ 104 X (100K)		T	58.8/22.7
R551	7030007340	S.RES	ERJ2GEJ 153 X (15K)		T	62.1/44.9
R552	7030007340	S.RES	ERJ2GEJ 153 X (15K)		T	64.6/45.8
R553	7030007340	S.RES	ERJ2GEJ 153 X (15K)		T	63.4/46.2
R554	7030009150	S.RES	ERJ2GEJ 824 X (820K)		T	66.8/42.1
R555	7030005530	S.RES	ERJ2GEJ 100 X (10)		T	66.8/43.8
R556	7030005050	S.RES	ERJ2GEJ 103 X (10K)		T	67.7/40.5
R557	7030005110	S.RES	ERJ2GEJ 224 X (220K)		T	63.8/44.0
R559	7030005050	S.RES	ERJ2GEJ 103 X (10K)		T	64.8/30.4
R560	7030005050	S.RES	ERJ2GEJ 103 X (10K)		T	63.5/33.5
R561	7030005040	S.RES	ERJ2GEJ 472 X (4.7K)		T	67.2/34.7
R562	7030007570	S.RES	ERJ2GEJ 122 X (1.2K)		T	67.2/36.5
R563	7030005220	S.RES	ERJ2GEJ 223 X (22K)		T	67.2/38.3
R564	7030008290	S.RES	ERJ2GEJ 183 X (18K)		T	66.8/40.5
R565	7030005030	S.RES	ERJ2GEJ 152 X (1.5K)		T	58.9/43.2
R566	7030007300	S.RES	ERJ2GEJ 332 X (3.3K)		T	60.2/42.7
R567	7030005040	S.RES	ERJ2GEJ 472 X (4.7K)		T	57.8/42.3
R568	7030005170	S.RES	ERJ2GEJ 474 X (470K)		T	62.1/44.0
R569	7030005170	S.RES	ERJ2GEJ 474 X (470K)		T	53.8/39.8



## [MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R571	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	57.5/20.6
R581	7030005530	S.RES ERJ2GEJ 100 X (10)	T	65.3/26.7
R582	7030005530	S.RES ERJ2GEJ 100 X (10)	T	65.3/27.6
R583	7030005530	S.RES ERJ2GEJ 100 X (10)	T	53.5/21.9
R584	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	61.7/22.4
R585	7030005110	S.RES ERJ2GEJ 224 X (220K)	T	55.7/22.3
R586	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	56.6/22.3
R601	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	10.5/38.8
R602	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	10.5/37.1
R611	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	30.3/43.0
R612	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	27.6/43.2
R621	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	76.6/25.7
R622	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	77.5/25.7
R623	7030005080	S.RES ERJ2GEJ 823 X (82K)	B	78.4/24.0
R624	7030005080	S.RES ERJ2GEJ 823 X (82K)	B	77.5/24.0
R625	7030005070	S.RES ERJ2GEJ 683 X (68K)	B	76.6/22.3
R626	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	78.1/19.3
R627	7030012750	S.RES ERJ2RHD 2202X (22.0K)	B	76.6/20.6
R628	7030011120	S.RES ERJ2RHD 2702X (27.0K)	B	77.5/20.6
R629	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	78.4/20.6
R630	7030005230	S.RES ERJ2GEJ 334 X (330K)	B	78.1/18.4
R632	7030005530	S.RES ERJ2GEJ 100 X (10)	B	85.4/21.6
R633	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	80.5/16.9
R635	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	B	75.7/22.3
R636	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	74.8/20.6
R637	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	86.3/24.7
R638	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	85.0/25.2
R640	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	B	85.0/26.9
R641	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	B	86.3/27.3
R646	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	84.1/16.0
R647	7030005080	S.RES ERJ2GEJ 823 X (82K)	B	83.6/17.3
R648	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	83.2/16.0
R650	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	81.4/16.9
R661	7030005000	S.RES ERJ2GEJ 471 X (470)	T	70.8/20.4
R664	7410001150	S.ARR EXB28V471JX	T	73.2/20.1
R701	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	87.3/14.6
R702	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	87.7/13.3
R703	7030005720	S.RES ERJ2GEJ 563 X (56K)	B	88.6/15.0
R704	7030005720	S.RES ERJ2GEJ 563 X (56K)	B	89.2/16.4
R705	7030005720	S.RES ERJ2GEJ 563 X (56K)	B	89.5/15.0
R706	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	92.7/16.4
R707	7030004980	S.RES ERJ2GEJ 101 X (100)	B	90.9/17.3
R711	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	100.3/14.3
R712	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	98.5/14.3
R713	7030005720	S.RES ERJ2GEJ 563 X (56K)	B	98.8/15.6
R714	7030005720	S.RES ERJ2GEJ 563 X (56K)	B	97.6/16.0
R715	7030005720	S.RES ERJ2GEJ 563 X (56K)	B	96.3/16.4
R716	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	96.3/14.6
R717	7030004980	S.RES ERJ2GEJ 101 X (100)	B	96.3/13.7
R721	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	53.4/21.8
R722	7030011210	S.RES ERJ2GEJ 1R0 X (1)	T	39.7/15.0
R723	7510001661	S.THR NTCG16 4LH 473JT	T	79.4/14.8
R724	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	77.5/15.0
R732	7030005100	S.RES ERJ2GEJ 154 X (150K)	B	16.7/18.1
R734	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	18.0/19.4
R735	7030007340	S.RES ERJ2GEJ 153 X (15K)	B	18.0/20.3
R737	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	9.8/17.3
R738	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	8.2/19.3
R739	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	7.3/15.4
R740	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	8.6/15.2
R741	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	14.6/19.4
R742	7030005060	S.RES ERJ2GEJ 333 X (33K)	B	13.2/20.7
R743	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	17.7/22.5
R744	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	13.7/22.0
R745	7030005220	S.RES ERJ2GEJ 223 X (22K)	B	16.5/15.0
R746	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	9.8/16.4
R747	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	14.7/15.0
R748	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	10.4/15.2
R753	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	25.6/16.2
R754	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	28.0/17.0
R755	7030005530	S.RES ERJ2GEJ 100 X (10)	B	27.1/17.0
R756	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	19.2/14.6
R757	7030010040	S.RES ERJ2GEJ-JPW	B	20.5/14.2
R758	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	9.1/10.6
R761	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	7.3/28.5
R762	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	7.3/29.4
R763	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	7.3/22.6
R764	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	7.3/23.5
R765	7030011130	S.RES ERJ1TYJ 1R0U (1)	T	19.5/18.1
R766	7030011130	S.RES ERJ1TYJ 1R0U (1)	T	23.4/18.1
R771	7030005530	S.RES ERJ2GEJ 100 X (10)	B	98.3/10.7
R774	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	90.9/6.4
R775	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	88.4/8.0
R782	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	96.8/6.8
R783	7030004980	S.RES ERJ2GEJ 101 X (100)	B	95.8/6.8
R784	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	94.6/6.4
R785	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	93.0/6.4
R791	7030005170	S.RES ERJ2GEJ 474 X (470K)	T	28.5/43.2
R792	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	28.9/39.4
R793	7030005110	S.RES ERJ2GEJ 224 X (220K)	T	30.6/39.4
R794	7030004980	S.RES ERJ2GEJ 101 X (100)	T	31.9/39.7
R850	7030010040	S.RES ERJ2GEJ-JPW	T	63.7/5.4
R881	7030005530	S.RES ERJ2GEJ 100 X (10)	T	40.0/41.5
R882	7030005600	S.RES ERJ2GEJ 273 X (27K)	T	35.7/40.3
R883	7030005220	S.RES ERJ2GEJ 223 X (22K)	T	37.1/35.5
R884	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	35.4/35.5
R885	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	42.3/35.6
R886	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	40.1/35.1
R887	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	41.0/35.1
R888	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	41.4/33.7
R890	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	35.4/30.5
R891	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	35.4/31.4
R892	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	35.4/34.1
R893	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	35.4/33.2
R894	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	44.1/21.9

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

## [MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R901	7030005530	S.RES ERJ2GEJ 100 X (10)	T	65.5/31.5
R902	7410001220	S.ARR EXB28V103JX	B	63.7/40.5
R903	7410001220	S.ARR EXB28V103JX	B	63.7/34.1
R905	7030011150	S.RES ERJ2GEJ 2R7 X (2.7)	B	37.4/47.6
R906	7410001220	S.ARR EXB28V103JX	B	58.6/30.9
R907	7410001220	S.ARR EXB28V103JX	B	56.1/30.9
R908	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	54.3/30.9
R909	7030005160	S.RES ERJ2GEJ 105 X (1M)	T	47.9/36.9
R911	7410001220	S.ARR EXB28V103JX	B	43.9/40.3
R912	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	61.9/54.2
R913	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	61.9/55.5
R914	7030010040	S.RES ERJ2GEJ-JPW	T	45.1/42.1
R915	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	45.1/42.1
R916	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	45.1/43.0
R921	7030005160	S.RES ERJ2GEJ 105 X (1M)	B	48.8/48.5
R922	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	49.7/48.5
R923	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	50.6/48.5
R924	7030004980	S.RES ERJ2GEJ 101 X (100)	B	51.5/48.4
R925	7410001220	S.ARR EXB28V103JX	B	54.5/49.4
R927	7030005010	S.RES ERJ2GEJ 681 X (680)	B	58.1/48.5
C1	4030016930	S.CER C1005 JB 1A 104K-T	T	92.4/28.1
C2	4550007480	S.TAN F930J106MAABMA	T	92.3/32.1
C3	4550008730	S.TAN F921V224KAA	T	94.5/32.1
C4	4030017460	S.CER C1005 JB 1H 102K-T	T	87.3/33.6
C5	4030017440	S.CER C1005 CH 1H 221J-T	T	87.3/32.7
C6	4030016790	S.CER C1005 JB 1E 103K-T	T	74.3/32.8
C8	4030017460	S.CER C1005 JB 1H 102K-T	T	86.8/45.1
C9	4030017460	S.CER C1005 JB 1H 102K-T	T	86.4/43.7
C10	4030016930	S.CER C1005 JB 1A 104K-T	T	88.5/27.7
C11	4030017460	S.CER C1005 JB 1H 102K-T	T	84.2/45.6
C12	4030017460	S.CER C1005 JB 1H 102K-T	B	86.6/47.4
C13	4030018860	S.CER C1005 JB 0J 105K-T	T	81.7/43.0
C14	4030017460	S.CER C1005 JB 1H 102K-T	T	81.2/45.3
C15	4030017460	S.CER C1005 JB 1H 102K-T	T	79.9/43.0
C16	4030011810	S.CER C1608 JB 1A 224K-T	T	82.7/45.8
C17	4030017460	S.CER C1005 JB 1H 102K-T	T	79.5/46.2
C21	4030018010	S.CER C1005 CH 1H 360J-T	T	85.5/41.2
C22	4030017670	S.CER C1005 CH 1H 390J-T	T	84.2/41.4
C24	4030017760	S.CER C1005 JB 1H 222K-T	T	82.8/41.3
C25	4030017350	S.CER C1005 CH 1H 020B-T	T	82.3/37.3
C31	4030017550	S.CER C1005 CH 1H 1R5B-T	T	81.8/36.4
C32	4030017550	S.CER C1005 CH 1H 1R5B-T	T	83.5/35.8
C33	4030017440	S.CER C1005 CH 1H 221J-T	T	80.9/32.6
C34	4030017460	S.CER C1005 JB 1H 102K-T	T	80.1/37.5
C35	4030017460	S.CER C1005 JB 1H 102K-T	T	82.4/34.6
C36	4030017340	S.CER C1005 CH 1H 010B-T	T	78.6/36.1
C37	4030017460	S.CER C1005 JB 1H 102K-T	T	76.9/41.4
C41	4030017380	S.CER C1005 CH 1H 050B-T	T	75.6/39.1
C42	4030017460	S.CER C1005 JB 1H 102K-T	T	73.3/36.6
C43	4030017400	S.CER C1005 CH 1H 220J-T	T	74.4/34.0
C46	4030017630	S.CER C1005 CH 1H 120J-T	T	74.7/40.8
C47	4030017460	S.CER C1005 JB 1H 102K-T	T	74.1/47.3
C48	4030017460	S.CER C1005 JB 1H 102K-T	T	74.5/45.9
C49	4030017650	S.CER C1005 CH 1H 270J-T	T	72.3/45.6
C51	4030017460	S.CER C1005 JB 1H 102K-T	B	51.1/57.9
C52	4030017460	S.CER C1005 JB 1H 102K-T	B	56.0/58.9
C53	4030020310	S.CER GRM31CB31C106KA88L	B	57.0/60.5
C54	4030017460	S.CER C1005 JB 1H 102K-T	B	80.4/12.0
C55	4030019560	S.CER GRM21BB31C106KE15L	B	79.0/11.5
C56	4030017460	S.CER C1005 JB 1H 102K-T	B	79.2/7.6
C57	4030019560	S.CER GRM21BB31C106KE15L	B	78.6/9.0
C61	4030017460	S.CER C1005 JB 1H 102K-T	T	61.4/57.1
C62	4030017570	S.CER C1005 CH 1H 040B-T	T	60.1/58.6
C65	4030017460	S.CER C1005 JB 1H 102K-T	T	57.7/62.2
C67	4030017420	S.CER C1005 CH 1H 470J-T	T	59.5/61.2
C68	4030017460	S.CER C1005 JB 1H 102K-T	T	58.6/61.2
C69	4030017620	S.CER C1005 CH 1H 100C-T	T	55.7/59.5
C70	4030017620	S.CER C1005 CH 1H 100C-T	T	54.4/59.9
C73	4030017460	S.CER C1005 JB 1H 102K-T	T	85.1/26.6
C74	4030017650	S.CER C1005 CH 1H 270J-T	T	82.7/25.3
C75	4030017650	S.CER C1005 CH 1H 270J-T	T	81.8/25.3
C76	4030017460	S.CER C1005 JB 1H 102K-T	T	96.2/27.3
C77	4030017610	S.CER C1005 CH 1H 090C-T	T	97.9/28.5
C78	4030017610	S.CER C1005 CH 1H 090C-T	T	99.5/28.5
C81	4030017440	S.CER C1005 CH 1H 221J-T	T	61.7/66.0
C82	4030017460	S.CER C1005 JB 1H 102K-T	T	62.6/66.0

## [MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C126	4030017630	S.CER C1005 CH 1H 120J-T	T	111.8/63.7
C127	4030017570	S.CER C1005 CH 1H 040B-T	T	113.1/63.3
C128	4030017570	S.CER C1005 CH 1H 040B-T	B	109.1/67.5
C129	4030017570	S.CER C1005 CH 1H 040B-T	B	114.2/64.3
C131	4030017460	S.CER C1005 JB 1H 102K-T	T	74.7/62.5
C132	4030017460	S.CER C1005 JB 1H 102K-T	T	80.8/59.4
C133	4030017460	S.CER C1005 JB 1H 102K-T	T	76.1/56.6
C134	4030017460	S.CER C1005 JB 1H 102K-T	T	76.1/58.3
C135	4030017460	S.CER C1005 JB 1H 102K-T	T	74.8/60.6
C136	4030017730	S.CER C1005 JB 1H 471K-T	T	73.4/56.7
C137	4030017460	S.CER C1005 JB 1H 102K-T	T	69.6/58.2
C138	4030017460	S.CER C1005 JB 1H 102K-T	T	69.9/60.5
C141	4030016790	S.CER C1005 JB 1E 103K-T	T	64.6/57.1
C142	4030017460	S.CER C1005 JB 1H 102K-T	T	63.7/57.1
C144	4030016790	S.CER C1005 JB 1E 103K-T	T	68.3/56.1
C151	4030017460	S.CER C1005 JB 1H 102K-T	B	36.1/10.8
C152	4030020310	S.CER GRM31CB31C106KA88L	B	39.6/6.8
C153	4030019560	S.CER GRM21BB31C106KE15L	B	34.5/6.4
C154	4030017460	S.CER C1005 JB 1H 102K-T	B	35.1/5.0
C156	4030016930	S.CER C1005 JB 1A 104K-T	T	96.4/24.9
C157	4550007480	S.TAN F930J106MAABMA	T	97.9/22.3
C158	4030016930	S.CER C1005 JB 1A 104K-T	T	99.0/25.8
C160	4030016790	S.CER C1005 JB 1E 103K-T	T	85.6/25.3
C161	4030017460	S.CER C1005 JB 1H 102K-T	T	84.7/25.3
C162	4030016930	S.CER C1005 JB 1A 104K-T	T	95.5/25.5
C163	4030017670	S.CER C1005 CH 1H 390J-T	T	88.7/19.5
C164	4030021710	S.CER GRM1552C1H300GA01D	T	88.3/20.8
C165	4030017560	S.CER C1005 CH 1H 2R5B-T	T	78.8/17.5
C166	4030017640	S.CER C1005 CH 1H 150J-T	T	79.7/17.5
C167	4030017690	S.CER C1005 CH 1H 121J-T	T	79.7/19.2
C168	4030016790	S.CER C1005 JB 1E 103K-T	T	79.7/21.0
C169	4030018910	S.CER C1608 JB 0J 475K-T	T	78.6/21.4
C170	4030017460	S.CER C1005 JB 1H 102K-T	T	95.5/21.6
C171	4030017460	S.CER C1005 JB 1H 102K-T	T	103.1/45.8
C172	4550008210	S.TAN 267M3502 104MR	T	104.8/44.0
C174	4030017360	S.CER C1005 CH 1H 030B-T	T	111.9/47.1
C175	4030017550	S.CER C1005 CH 1H 1R5B-T	T	111.9/45.4
C176	4030021710	S.CER GRM1552C1H300GA01D	T	112.8/47.1
C177	4030021710	S.CER GRM1552C1H300GA01D	T	112.8/45.4
C178	4030016930	S.CER C1005 JB 1A 104K-T	T	113.8/44.2
C179	4030017460	S.CER C1005 JB 1H 102K-T	T	114.7/44.2
C181	4030017530	S.CER C1005 CH 1H 0R5B-T	T	117.8/42.2
C182	4030017460	S.CER C1005 JB 1H 102K-T	T	113.8/42.6
C183	4030017380	S.CER C1005 CH 1H 050B-T	T	112.2/38.3
C184	4030017460	S.CER C1005 JB 1H 102K-T	T	110.3/36.9
C185	4030017400	S.CER C1005 CH 1H 220J-T	T	109.8/32.8
C186	4030017630	S.CER C1005 CH 1H 120J-T	T	116.1/39.2
C187	4030017460	S.CER C1005 JB 1H 102K-T	T	114.7/34.5
C188	4030017620	S.CER C1005 CH 1H 100C-T	T	116.9/33.1
C189	4030017460	S.CER C1005 JB 1H 102K-T	T	115.2/35.8
C192	4030017760	S.CER C1005 JB 1H 222K-T	T	106.0/40.6
C193	4030017560	S.CER C1005 CH 1H 2R5B-T	T	106.0/42.4
C195	4030017490	S.CER C1608 JB 1A 105K-T	T	108.8/38.0
C196	4550008710	S.TAN F921A106MAA	T	105.3/35.0
C201	4030017460	S.CER C1005 JB 1H 102K-T	[#01] T	113.8/58.0
	4030017460	S.CER C1005 JB 1H 102K-T	[#10]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#11]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#20]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#21]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#30]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#31]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#40]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#41]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#50]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#01]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#10]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#11]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#20]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#21]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#30]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#31]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#40]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#41]	
	4030017460	S.CER C1005 JB 1H 102K-T	[#50]	
C211	4030017460	S.CER C1005 JB 1H 102K-T	T	115.0/60.8
C213	4030016790	S.CER C1005 JB 1E 103K-T	T	102.1/59.6
C228	4030017350	S.CER C1005 CH 1H 020B-T	T	126.4/38.6
C229	4030016790	S.CER C1005 JB 1E 103K-T	T	126.1/28.5
C231	4030016790	S.CER C1005 JB 1E 103K-T	T	129.0/18.2
C232	4030021660	S.CER GRM1552C1H560GA01D	T	129.0/21.8
C233	4030017600	S.CER C1005 CH 1H 080C-T	T	129.0/20.9
C234	4030017400	S.CER C1005 CH 1H 220J-T	T	130.8/23.9
C235	4030017460	S.CER C1005 JB 1H 102K-T	T	130.8/23.0
C236	4030016930	S.CER C1005 JB 1A 104K-T	T	130.8/22.1
C237	4030017460	S.CER C1005 JB 1H 102K-T	T	125.4/23.4
C242	4030017590	S.CER C1005 CH 1H 070C-T	T	111.8/21.3
C245	4030017460	S.CER C1005 JB 1H 102K-T	T	102.9/22.5
C251	4030017640	S.CER C1005 CH 1H 150J-T	T	101.0/19.6
C252	4030016790	S.CER C1005 JB 1E 103K-T	T	101.9/18.0
C253	4030017460	S.CER C1005 JB 1H 102K-T	T	102.8/18.0
C254	4030016790	S.CER C1005 JB 1E 103K-T	T	106.7/18.9
C262	4030017410	S.CER C1005 CH 1H 240J-T	B	115.2/36.1
C264	4030017460	S.CER C1005 JB 1H 102K-T	B	116.2/33.2
C271	4030017670	S.CER C1005 CH 1H 390J-T	T	112.9/5.8
C272	4030018910	S.CER C1608 JB 0J 475K-T	T	112.4/3.8
C273	4030016790	S.CER C1005 JB 1E 103K-T	T	111.6/5.4
C274	4030018890	S.CER C1005 JB 0J 224K-T	T	117.6/9.2
C275	4030017460	S.CER C1005 JB 1H 102K-T	T	114.6/5.8
C276	4030017460	S.CER C1005 JB 1H 102K-T	T	115.1/4.5
C277	4030016930	S.CER C1005 JB 1A 104K-T	T	116.7/10.9
C281	4030017440	S.CER C1005 CH 1H 221J-T	T	107.9/4.4
C282	4030017440	S.CER C1005 CH 1H 221J-T	T	107.0/4.4
C283	4030017400	S.CER C1005 CH 1H 220J-T	T	107.4/2.2
C284	4030016930	S.CER C1005 JB 1A 104K-T	T	110.3/5.4
C285	4030016930	S.CER C1005 JB 1A 104K-T	T	106.7/8.6

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

## [MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C286	4030016930	S.CER C1005 JB 1A 104K-T	T	106.7/9.5
C287	4030017460	S.CER C1005 JB 1H 102K-T	T	113.4/13.3
C288	4030016930	S.CER C1005 JB 1A 104K-T	T	113.4/12.4
C291	4030020040	S.CER C1005 CH 1H 200J-T	T	107.1/10.9
C292	4030018010	S.CER C1005 CH 1H 360J-T	T	105.3/10.9
C311	4030017460	S.CER C1005 JB 1H 102K-T	B	103.9/66.4
C318	4030017460	S.CER C1005 JB 1H 102K-T	B	97.2/55.8
C321	4030017460	S.CER C1005 JB 1H 102K-T	B	96.8/54.6
C331	4030017460	S.CER C1005 JB 1H 102K-T	B	94.4/53.1
C332	4030021660	S.CER GRM1552C1H560GA01D	B	97.5/50.7
C333	4030017570	S.CER C1005 CH 1H 040B-T	B	97.5/49.8
C334	4030017400	S.CER C1005 CH 1H 220J-T	B	96.2/50.3
C335	4030017460	S.CER C1005 JB 1H 102K-T	B	95.3/50.3
C336	4030016930	S.CER C1005 JB 1A 104K-T	B	94.4/50.3
C337	4030017460	S.CER C1005 JB 1H 102K-T	B	97.1/45.7
C342	4030017570	S.CER C1005 CH 1H 040B-T	B	92.6/33.9
C345	4030017460	S.CER C1005 JB 1H 102K-T	B	97.4/24.2
C353	4030016790	S.CER C1005 JB 1E 103K-T	B	100.9/21.3
C354	4030016790	S.CER C1005 JB 1E 103K-T	B	98.7/19.1
C365	4030016930	S.CER C1005 JB 1A 104K-T	T	95.5/15.3
C371	4030017670	S.CER C1005 CH 1H 390J-T	T	92.1/10.8
C372	4030018910	S.CER C1608 JB 0J 475K-T	T	88.9/10.6
C373	4030016790	S.CER C1005 JB 1E 103K-T	T	90.8/10.3
C374	4030016930	S.CER C1005 JB 1A 104K-T	T	96.4/15.3
C375	4030017460	S.CER C1005 JB 1H 102K-T	T	94.4/10.3
C376	4030017460	S.CER C1005 JB 1H 102K-T	B	89.0/12.0
C381	4030017430	S.CER C1005 CH 1H 101J-T	T	112.8/53.5
C384	4030016930	S.CER C1005 JB 1A 104K-T	T	85.6/13.0
C385	4030016930	S.CER C1005 JB 1A 104K-T	T	85.3/14.3
C386	4030016930	S.CER C1005 JB 1A 104K-T	T	85.3/15.2
C388	4030016930	S.CER C1005 JB 1A 104K-T	T	91.6/17.9
C391	4030017460	S.CER C1005 JB 1H 102K-T	B	92.7/52.5
C393	4030017640	S.CER C1005 CH 1H 150J-T	B	89.4/54.0
C396	4030017350	S.CER C1005 CH 1H 020B-T	T	94.0/17.5
C398	4030017350	S.CER C1005 CH 1H 020B-T	T	95.4/17.7
C501	4510010250	S.ELE 16 CE 22 LD	T	11.7/50.6
C502	4030017460	S.CER C1005 JB 1H 102K-T	T	3.6/51.4
C503	4030011600	S.CER C1608 JB 1E 104K-T ATEX	T	4.7/51.7
C504	4030017460	S.CER C1005 JB 1H 102K-T	T	31.7/55.5
C505	4030011600	S.CER C1608 JB 1E 104K-T ATEX	T	32.2/54.4
C506	4030017730	S.CER C1005 JB 1H 471K-T	T	31.7/56.4
C507	4030016790	S.CER C1005 JB 1E 103K-T	B	30.3/65.1
C508	4030017430	S.CER C1005 CH 1H 101J-T	B	31.2/65.1
C509	4030017730	S.CER C1005 JB 1H 471K-T	T	13.7/54.0
C510	4030016790	S.CER C1005 JB 1E 103K-T	B	14.6/48.7
C511	4030016790	S.CER C1005 JB 1E 103K-T	T	29.9/54.6
C512	4030016790	S.CER C1005 JB 1E 103K-T	T	27.1/56.4
C514	4030017460	S.CER C1005 JB 1H 102K-T	T	27.1/55.5
C516	4030017460	S.CER C1005 JB 1H 102K-T	T	27.0/64.8
C517	4030017460	S.CER C1005 JB 1H 102K-T	T	30.2/64.8
C520	4030020250	S.CER GRM21BB11A225KA01L	B	37.5/21.7
C521	4030020250	S.CER GRM21BB11A225KA01L	B	40.8/25.4
C523	4030018890	S.CER C1005 JB 0J 224K-T	B	39.1/19.0
C524	4030018910	S.CER C1608 JB 0J 475K-T	T	60.1/39.3
C525	4030017460	S.CER C1005 JB 1H 102K-T	T	58.9/39.3
C526	4030017460	S.CER C1005 JB 1H 102K-T	B	43.8/25.4
C527	4030017490	S.CER C1608 JB 1A 105K-T	B	43.1/16.0
C528	4030017490	S.CER C1608 JB 1A 105K-T	T	58.4/34.5
C529	4030018970	S.CER C3225 JB 1C 226MT-FN	B	35.5/16.8
C531	4030018900	S.CER C1005 JB 0J 474K-T	T	67.2/35.6
C532	4030016930	S.CER C1005 JB 1A 104K-T	T	63.5/31.8
C533	4030017760	S.CER C1005 JB 1H 222K-T	T	67.2/39.2
C534	4030018080	S.CER C1005 JB 1H 182K-T	T	67.2/37.4
C535	4030018890	S.CER C1005 JB 0J 224K-T	T	60.4/44.9
C536	4030017920	S.CER C1005 JB 1A 683K-T	T	62.5/46.2
C537	4030016970	S.CER C1005 JB 1E 223K-T	T	63.8/44.9
C538	4030017780	S.CER C1005 JB 1H 472K-T	T	65.5/44.0
C539	4030017780	S.CER C1005 JB 1H 472K-T	T	65.5/44.9
C541	4030018900	S.CER C1005 JB 0J 474K-T	T	60.4/44.0
C543	4030017490	S.CER C1608 JB 1A 105K-T	T	56.7/43.4
C560	4030018900	S.CER C1005 JB 0J 474K-T	T	59.4/26.9
C571	4030016790	S.CER C1005 JB 1E 103K-T	T	55.6/30.7
C576	4030016930	S.CER C1005 JB 1A 104K-T	T	57.5/22.3



[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C644	4030016790	S.CER C1005 JB 1E 103K-T	B	86.7/22.2
C649	4030017460	S.CER C1005 JB 1H 102K-T	B	85.4/22.5
C650	4030018910	S.CER C1608 JB 0J 475K-T	B	85.9/23.6
C651	4030016790	S.CER C1005 JB 1E 103K-T	B	75.7/20.6
C657	4030016970	S.CER C1005 JB 1E 223K-T	B	74.8/22.3
C658	4030016930	S.CER C1005 JB 1A 104K-T	B	87.7/24.2
C663	4030016930	S.CER C1005 JB 1A 104K-T	B	81.9/15.6
C664	4030017460	S.CER C1005 JB 1H 102K-T	B	80.6/14.6
C681	4030016790	S.CER C1005 JB 1E 103K-T	T	70.8/18.7
C682	4030018910	S.CER C1608 JB 0J 475K-T	T	69.7/19.9
C683	4030016790	S.CER C1005 JB 1E 103K-T	T	74.8/27.7
C701	4030016790	S.CER C1005 JB 1E 103K-T	B	88.6/13.3
C702	4030017760	S.CER C1005 JB 1H 222K-T	B	87.5/16.4
C703	4030016790	S.CER C1005 JB 1E 103K-T	B	90.9/16.4
C704	4030017430	S.CER C1005 CH 1H 101J-T	B	89.5/13.3
C711	4030016790	S.CER C1005 JB 1E 103K-T	B	99.4/14.3
C712	4030017780	S.CER C1005 JB 1H 472K-T	B	97.6/14.3
	4030017780	S.CER C1005 JB 1H 472K-T	[#01]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#04]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#05]	
	4030017760	S.CER C1005 JB 1H 222K-T	[#06]	
	4030017760	S.CER C1005 JB 1H 222K-T	[#07]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#09]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#10]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#11]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#14]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#15]	
	4030017760	S.CER C1005 JB 1H 222K-T	[#16]	
	4030017760	S.CER C1005 JB 1H 222K-T	[#17]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#19]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#20]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#21]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#24]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#25]	
	4030017760	S.CER C1005 JB 1H 222K-T	[#26]	
	4030017760	S.CER C1005 JB 1H 222K-T	[#27]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#29]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#30]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#31]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#34]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#35]	
	4030017760	S.CER C1005 JB 1H 222K-T	[#36]	
	4030017760	S.CER C1005 JB 1H 222K-T	[#37]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#39]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#40]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#41]	
	4030017760	S.CER C1005 JB 1H 222K-T	[#44]	
	4030017760	S.CER C1005 JB 1H 222K-T	[#46]	
	4030017760	S.CER C1005 JB 1H 222K-T	[#47]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#49]	
	4030017780	S.CER C1005 JB 1H 472K-T	[#50]	
C713	4030016970	S.CER C1005 JB 1E 223K-T	B	96.3/15.5
	4030016970	S.CER C1005 JB 1E 223K-T	[#01]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#04]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#05]	
	4030016970	S.CER C1005 JB 1E 103K-T	[#06]	
	4030016970	S.CER C1005 JB 1E 103K-T	[#07]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#09]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#10]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#11]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#14]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#15]	
	4030016970	S.CER C1005 JB 1E 103K-T	[#16]	
	4030016970	S.CER C1005 JB 1E 103K-T	[#17]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#19]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#20]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#21]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#24]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#25]	
	4030016970	S.CER C1005 JB 1E 103K-T	[#26]	
	4030016970	S.CER C1005 JB 1E 103K-T	[#27]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#29]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#30]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#31]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#34]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#35]	
	4030016970	S.CER C1005 JB 1E 103K-T	[#36]	
	4030016970	S.CER C1005 JB 1E 103K-T	[#37]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#39]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#40]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#41]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#44]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#45]	
	4030016970	S.CER C1005 JB 1E 103K-T	[#46]	
	4030016970	S.CER C1005 JB 1E 103K-T	[#47]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#49]	
	4030016970	S.CER C1005 JB 1E 223K-T	[#50]	

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C714	4030017440	S.CER C1005 CH 1H 221J-T	B	94.4/16.4
	4030017440	S.CER C1005 CH 1H 221J-T	[#01]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#04]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#05]	
	4030017430	S.CER C1005 CH 1H 101J-T	[#06]	
	4030017430	S.CER C1005 CH 1H 101J-T	[#07]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#09]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#10]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#11]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#14]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#15]	
	4030017430	S.CER C1005 CH 1H 101J-T	[#16]	
	4030017430	S.CER C1005 CH 1H 101J-T	[#17]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#19]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#20]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#21]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#24]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#25]	
	4030017430	S.CER C1005 CH 1H 101J-T	[#26]	
	4030017430	S.CER C1005 CH 1H 101J-T	[#27]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#29]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#30]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#31]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#34]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#35]	
	4030017430	S.CER C1005 CH 1H 101J-T	[#36]	
	4030017430	S.CER C1005 CH 1H 101J-T	[#37]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#39]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#40]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#41]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#44]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#45]	
	4030017430	S.CER C1005 CH 1H 101J-T	[#46]	
	4030017430	S.CER C1005 CH 1H 101J-T	[#47]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#49]	
	4030017440	S.CER C1005 CH 1H 221J-T	[#50]	
C718	4030018910	S.CER C1608 JB 0J 475K-T	B	97.2/11.0
C719	4030017460	S.CER C1005 JB 1H 102K-T	B	96.1/10.7
C724	4030017730	S.CER C1005 JB 1H 471K-T	T	17.5/34.8
C725	4030017680	S.CER C1005 CH 1H 820J-T	T	17.5/33.9
C726	4030017460	S.CER C1005 JB 1H 102K-T	T	31.3/15.3
C727	4030017460	S.CER C1005 JB 1H 102K-T	T	37.7/15.0
C728	4030016790	S.CER C1005 JB 1E 103K-T	T	38.7/15.0
C731	4030017440	S.CER C1005 CH 1H 221J-T	T	36.7/15.0
C732	4030017460	S.CER C1005 JB 1H 102K-T	T	37.2/5.4
C733	4030017460	S.CER C1005 JB 1H 102K-T	T	35.7/15.0
C734	4030017440	S.CER C1005 CH 1H 221J-T	T	36.2/5.4
C741	4030016930	S.CER C1005 JB 1A 104K-T	B	18.0/17.6
C742	4030011600	S.CER C1608 JB 1E 104K-T ATEX	B	25.6/23.6
C743	4030017440	S.CER C1005 CH 1H 221J-T	B	18.0/18.5
C744	4030018890	S.CER C1005 JB 0J 224K-T	B	11.9/21.4
C747	4030018890	S.CER C1005 JB 0J 224K-T	B	16.3/19.4
C748	4030018100	S.CER C1005 JB 1H 681K-T	B	14.1/20.7
C749	4030011810	S.CER C1608 JB 1A 224K-T	B	7.1/19.0
C750	4030016930	S.CER C1005 JB 1A 104K-T	B	18.0/21.2
C752	4030011600	S.CER C1608 JB 1E 104K-T ATEX	B	28.0/19.3
C753	4030018890	S.CER C1005 JB 0J 224K-T	B	7.8/10.6
C755	4030020310	S.CER GRM31CB31C106KA88L	B	25.5/19.3
C756	4030018890	S.CER C1005 JB 0J 224K-T	B	17.4/14.6
C757	4030016930	S.CER C1005 JB 1A 104K-T	B	11.1/16.7
C758	4030017740	S.CER C1005 JB 1H 821K-T	B	15.6/15.0
C759	4030018890	S.CER C1005 JB 0J 224K-T	B	9.5/15.2
C761	4030017460	S.CER C1005 JB 1H 102K-T	B	6.9/10.6
C762	4510009920	S.ELE 16 CE 100 LH	T	12.5/17.6
C763	4030020310	S.CER GRM31CB31C106KA88L	T	5.2/13.9
C764	4030017480	S.CER C1608 JB 1A 474K-T	T	5.6/19.4
C765	4510010300	S.ELE 16 CE 470 AX	T	13.2/29.0
C766	4030011600	S.CER C1608 JB 1E 104K-T ATEX	T	6.1/33.9
C767	4030017460	S.CER C1005 JB 1H 102K-T	T	5.0/33.4
C768	4030016790	S.CER C1005 JB 1E 103K-T	T	4.1/33.4
C769	4030017460	S.CER C1005 JB 1H 102K-T	B	12.7/39.4
C770	4030011600	S.CER C1608 JB 1E 104K-T ATEX	B	11.6/38.9
C772	4030011600	S.CER C1608 JB 1E 104K-T ATEX	B	8.8/27.8
C773	4030011600	S.CER C1608 JB 1E 104K-T ATEX	B	8.8/30.6
C775	4030017440	S.CER C1005 CH 1H 221J-T	B	24.1/37.7
C776	4030017440	S.CER C1005 CH 1H 221J-T	B	24.1/36.3
C777	4030017440	S.CER C1005 CH 1H 221J-T	B	19.5/37.7
C778	4030017440	S.CER C1005 CH 1H 221J-T	B	19.5/36.3
C782	4030011600	S.CER C1608 JB 1E 104K-T ATEX	B	8.8/21.8
C783	4030011600	S.CER C1608 JB 1E 104K-T ATEX	B	8.8/24.6
C785	4030017440	S.CER C1005 CH 1H 221J-T	B	35.7/45.0
C786	4030017440	S.CER C1005 CH 1H 221J-T	B	35.7/46.4
C787	4030017440	S.CER C1005 CH 1H 221J-T	B	28.5/36.3
C788	4030017440	S.CER C1005 CH 1H 221J-T	B	28.5/37.7
C791	4030017460	S.CER C1005 JB 1H 102K-T	T	4.6/9.4
C792	4030016930	S.CER C1005 JB 1A 104K-T	T	5.6/9.4
C795	4030017780	S.CER C1005 JB 1H 472K-T	T	27.5/26.0
C796	4030017460	S.CER C1005 JB 1H 102K-T	T	29.9/36.6
C797	4030016930	S.CER C1005 JB 1A 104K-T	T	27.3/39.4
C798	4030017440	S.CER C1005 CH 1H 221J-T	T	30.6/38.5
C806	4030017460	S.CER C1005 JB 1H 102K-T	T	38.2/5.4
C811	4030017400	S.CER C1005 CH 1H 220J-T	T	40.7/15.0
C812	4030017460	S.CER C1005 JB 1H 102K-T	T	41.2/5.4
C813	4030017460	S.CER C1005 JB 1H 102K-T	T	41.7/15.0
C814	4030017460	S.CER C1005 JB 1H 102K-T	T	42.2/5.4
C815	4030017460	S.CER C1005 JB 1H 102K-T	T	42.7/15.0
C816	4030017460	S.CER C1005 JB 1H 102K-T	T	43.2/5.4
C818	4030017460	S.CER C1005 JB 1H 102K-T	T	44.2/5.4
C820	4030017400	S.CER C1005 CH 1H 220J-T	T	45.2/5.4
C822	4030017400	S.CER C1005 CH 1H 220J-T	T	46.2/5.4
C824	4030017400	S.CER C1005 CH 1H 220J-T	T	47.2/5.4
C825	4030017460	S.CER C1005 JB 1H 102K-T	T	47.7/15.0
C829	4030017400	S.CER C1005 CH 1H 220J-T	T	49.7/15.0
C831	4030017400	S.CER C1005 CH 1H 220J-T	T	50.7/15.0
C834	4030017460	S.CER C1005 JB 1H 102K-T	T	52.2/5.4
C838	4030017460	S.CER C1005 JB 1H 102K-T	T	54.2/5.4

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

## [MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C843	4030017460	S.CER C1005 JB 1H 102K-T	T	60.2/15.0
C845	4030017460	S.CER C1005 JB 1H 102K-T	T	61.2/15.0
C847	4030017400	S.CER C1005 CH 1H 220J-T	T	62.2/15.0
C849	4030017400	S.CER C1005 CH 1H 220J-T	T	63.2/15.0
C851	4030017460	S.CER C1005 JB 1H 102K-T	T	64.2/15.0
C853	4030017460	S.CER C1005 JB 1H 102K-T	T	65.2/15.0
C855	4030017460	S.CER C1005 JB 1H 102K-T	T	66.2/15.0
C856	4030017400	S.CER C1005 CH 1H 220J-T	T	66.7/5.4
C857	4030017460	S.CER C1005 JB 1H 102K-T	T	67.2/15.0
C859	4030017460	S.CER C1005 JB 1H 102K-T	T	68.2/15.0
C861	4030017400	S.CER C1005 CH 1H 220J-T	T	69.2/15.0
C862	4030017460	S.CER C1005 JB 1H 102K-T	T	69.7/5.4
C863	4030017400	S.CER C1005 CH 1H 220J-T	T	70.2/15.0
C864	4030017460	S.CER C1005 JB 1H 102K-T	T	70.7/5.4
C865	4030017460	S.CER C1005 JB 1H 102K-T	T	71.2/15.0
C866	4030017460	S.CER C1005 JB 1H 102K-T	T	71.7/5.4
C867	4030017460	S.CER C1005 JB 1H 102K-T	T	72.2/15.0
C868	4030017460	S.CER C1005 JB 1H 102K-T	T	72.7/5.4
C869	4030017460	S.CER C1005 JB 1H 102K-T	T	73.2/15.0
C881	4030017490	S.CER C1608 JB 1A 105K-T	B	55.2/24.1
C882	4030017460	S.CER C1005 JB 1H 102K-T	T	81.3/15.1
C883	4030016930	S.CER C1005 JB 1A 104K-T	T	82.2/15.1
C891	4030018910	S.CER C1608 JB 0J 475K-T	T	40.4/40.4
C892	4030016930	S.CER C1005 JB 1A 104K-T	T	42.3/34.7
C893	4030017490	S.CER C1608 JB 1A 105K-T	T	35.6/28.7
C894	4030018920	S.CER C1005 JB 1H 392K-T	T	39.9/28.0
C895	4030016930	S.CER C1005 JB 1A 104K-T	T	41.5/28.0
C896	4030017460	S.CER C1005 JB 1H 102K-T	T	45.0/21.9
C901	4030018860	S.CER C1005 JB 0J 105K-T	B	40.8/39.4
C902	4030018860	S.CER C1005 JB 0J 105K-T	B	39.1/39.4
C903	4030018860	S.CER C1005 JB 0J 105K-T	B	41.8/44.3
C904	4030018860	S.CER C1005 JB 0J 105K-T	B	40.0/44.3
C905	4030019560	S.CER GRM21BB31C106KE15L	B	38.2/41.6
C910	4030018860	S.CER C1005 JB 0J 105K-T	B	50.1/30.9
C911	4030018900	S.CER C1005 JB 0J 474K-T	B	51.9/30.9
C912	4030018900	S.CER C1005 JB 0J 474K-T	B	51.0/30.9
C913	4030016930	S.CER C1005 JB 1A 104K-T	B	53.0/30.9
C914	4030018860	S.CER C1005 JB 0J 105K-T	T	53.8/38.1
C915	4030016930	S.CER C1005 JB 1A 104K-T	B	43.8/35.2
C916	4030016930	S.CER C1005 JB 1A 104K-T	B	45.1/38.3
C917	4030019560	S.CER GRM21BB31C106KE15L	B	44.6/36.6
C918	4030018860	S.CER C1005 JB 0J 105K-T	T	47.9/37.8
C921	4030016930	S.CER C1005 JB 1A 104K-T	B	45.1/43.9
C922	4030016930	S.CER C1005 JB 1A 104K-T	B	45.1/44.8
C923	4030016930	S.CER C1005 JB 1A 104K-T	B	61.6/52.6
C924	4030016930	S.CER C1005 JB 1A 104K-T	B	43.9/53.9
C925	4030016930	S.CER C1005 JB 1A 104K-T	B	47.9/48.5
C931	4030017040	S.CER C1005 JB 1A 333K-T	B	58.6/49.8
C932	4030017770	S.CER C1005 JB 1H 332K-T	B	59.0/48.5
C933	4030016930	S.CER C1005 JB 1A 104K-T	B	56.3/48.5
C934	4030016930	S.CER C1005 JB 1A 104K-T	B	57.2/48.5
C935	4030016930	S.CER C1005 JB 1A 104K-T	B	63.4/38.4
C936	4030019560	S.CER GRM21BB31C106KE15L	B	44.5/48.8
C937	4030016930	S.CER C1005 JB 1A 104K-T	B	43.2/43.0
C938	4030016930	S.CER C1005 JB 1A 104K-T	B	65.3/43.5
C939	4030016930	S.CER C1005 JB 1A 104K-T	B	63.4/36.9
RL1	6310000110	S.REL AGQ200S12	T	24.6/33.3
J1	6510022472	S.CON 40FLT-SM2-TB(LF)(SN)(M)	T	45.5/10.2
J2	6510021722	S.CON 30FLT-SM2-TB(LF)(SN)(M)	T	66.5/10.2
J3	6510030260	S.CON BM04B-PASS-TF(LF)(SN)	B	27.0/42.3
J4	6510025142	S.CON 10FLT-SM2-TB(LF)(SN)(M)	T	28.3/60.0
J5	6510030280	S.CON IMSA-9706S-06Y913	B	112.7/57.6
J7	6510016431	S.CON 53307-1471	T	39.5/23.6
F1	5210001160	S.FUS ERBRE3R00V	T	4.7/47.4
EP701	6910016330	S.BEA MMZ1005S 601CT-S	B	7.3/17.2
EP702	6910016330	S.BEA MMZ1005S 601CT-S	B	7.3/9.3
EP703	6910019100	S.BEA MPZ1608S101AT	B	26.8/37.0
EP704	6910019100	S.BEA MPZ1608S101AT	B	25.5/37.0
EP705	6910019100	S.BEA MPZ1608S101AT	B	22.4/37.0
EP706	6910019100	S.BEA MPZ1608S101AT	B	21.0/37.0
EP707	6910019100	S.BEA MPZ1608S101AT	B	34.2/45.7
EP708	6910019100	S.BEA MPZ1608S101AT	B	30.0/37.0

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

## [LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140017111	S.IC STM32F101ZGT6(FX3570A1) <TOMEN>	B	109.0/53.0
IC2	1110006740	S.IC LMV358IPWR	B	84.7/45.3
IC3	1130009981	S.IC TC7W53FK(TE85LF)	B	69.9/64.3
IC4	1180003570	S.REG NJM2830U1-33-TE1-#ZZZB	B	52.5/86.6
IC5	1130007061	S.IC TC7W02FU(TE12LF)	B	113.9/70.0
IC6	1130017240	S.IC SN74AHC1G04DCKR	B	133.0/63.6
IC7	1130016110	S.IC TC7WH14FK(TE85LF)	B	128.5/59.9
IC8	1130006551	S.IC TC7S08FU(TE85RF)	B	129.7/56.8
IC9	1170000352	S.IC PC357N6J000F	B	116.3/23.1
IC10	1120003130	S.IC ISL81487IBZ-T <MAC>	B	119.9/30.1
IC11	1110007620	S.IC NJU7704F3-42A-TE1-#ZZZB	B	58.6/86.4
IC12	1110003650	S.IC NJM2211M-TE1-#ZZZB	B	66.8/55.6
IC13	1110003650	S.IC NJM2211M-TE1-#ZZZB	B	54.8/55.6
	1110003650	S.IC NJM2211M-TE1-#ZZZB	[#06]	
	1110003650	S.IC NJM2211M-TE1-#ZZZB	[#07]	
	1110003650	S.IC NJM2211M-TE1-#ZZZB	[#16]	
	1110003650	S.IC NJM2211M-TE1-#ZZZB	[#17]	
	1110003650	S.IC NJM2211M-TE1-#ZZZB	[#26]	
	1110003650	S.IC NJM2211M-TE1-#ZZZB	[#27]	
	1110003650	S.IC NJM2211M-TE1-#ZZZB	[#36]	
	1110003650	S.IC NJM2211M-TE1-#ZZZB	[#37]	
	1110003650	S.IC NJM2211M-TE1-#ZZZB	[#46]	
	1110003650	S.IC NJM2211M-TE1-#ZZZB	[#47]	
IC14	1130016310	S.IC BR24T256FJ-WE2	B	132.2/47.7
IC15	1130017330	S.IC SN74AHC1G125DCKR	B	107.3/82.0
IC17	1130017290	S.IC SN74AHC1G32DCKR	B	132.2/56.8
Q1	1520000651	S.TRA 2SB1201S-TL-E	B	151.6/70.0
Q2	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	145.4/65.8
Q3	1590001330	S.TRA DTA114EUA T106	B	111.7/73.8
Q4	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	114.6/75.8
Q5	1530004140	S.TRA L2SC4081RT1G <SLVJ>	B	136.8/61.6
Q6	1510001151	S.TRA L2SA1576AST1G <SLVJ>	B	137.4/64.5
Q7	1560000541	S.FET 2SK880-Y(T5R1COMF)	B	128.0/62.4
D1	1750002040	S.ZEN DZ2J091M0L	B	145.7/68.8
D3	1750001810	S.DIO L1SS400T1G <SLVJ>	B	109.9/76.2
D5	1750001320	S.DIO KDS4148U RTK/P	B	114.6/20.1
X1	6050012460	S.XTA CR-834(SMD-49/7.9872 MHz) <JJE>	B	106.5/34.0
R2	7410001230	S.ARR EXB28V101JX	B	110.5/68.4
R3	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	108.7/68.2
R4	7410001230	S.ARR EXB28V101JX	B	106.9/68.4
R5	7410001130	S.ARR EXB28V102JX	B	99.4/68.5
R6	7030010040	S.RES ERJ2GEJ-JPW	B	94.8/66.1
R7	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	95.2/63.1
R10	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	123.8/59.8
R11	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	124.7/60.8
R12	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	124.2/50.5
R13	7410001130	S.ARR EXB28V102JX	B	124.4/54.8
R14	7410001130	S.ARR EXB28V102JX	B	124.4/52.3
R15	7410001330	S.ARR EXB24V101JX	B	124.7/46.7
R17	7410001330	S.ARR EXB24V101JX	B	94.7/38.3
R18	7410001230	S.ARR EXB28V101JX	B	94.7/40.6
R19	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	102.2/30.8
R20	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	75.7/36.8
R21	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	94.1/59.8
R22	7410001140	S.ARR EXB28V104JX	B	92.4/61.8
R23	7410001130	S.ARR EXB28V102JX	B	91.4/57.7
R24	7410001330	S.ARR EXB24V101JX	B	94.3/54.1
R25	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	94.3/52.8
R26	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	94.7/43.9
R27	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	94.3/45.1
R28	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#01]	
	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	[#04]	
	7030008010	S.RES ERJ2GEJ 123 X (12K)	[#05]	
	7030009710	S.RES ERJ2GEJ 203 X (20K)	[#06]	
	7030005060	S.RES ERJ2GEJ 333 X (33K)	[#07]	
	7030005720	S.RES ERJ2GEJ 563 X (56K)	[#09]	
	7030005090	S.RES ERJ2GEJ 104 X (100K)	[#10]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#11]	
	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	[#14]	
	7030008010	S.RES ERJ2GEJ 123 X (12K)	[#15]	
	7030009710	S.RES ERJ2GEJ 203 X (20K)	[#16]	
	7030005060	S.RES ERJ2GEJ 333 X (33K)	[#17]	
	7030005720	S.RES ERJ2GEJ 563 X (56K)	[#19]	
	7030005090	S.RES ERJ2GEJ 104 X (100K)	[#20]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#21]	
	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	[#24]	
	7030008010	S.RES ERJ2GEJ 123 X (12K)	[#25]	
	7030009710	S.RES ERJ2GEJ 203 X (20K)	[#26]	
	7030005060	S.RES ERJ2GEJ 333 X (33K)	[#27]	
	7030005720	S.RES ERJ2GEJ 563 X (56K)	[#29]	
	7030005090	S.RES ERJ2GEJ 104 X (100K)	[#30]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#31]	
	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	[#34]	
	7030008010	S.RES ERJ2GEJ 123 X (12K)	[#35]	
	7030009710	S.RES ERJ2GEJ 203 X (20K)	[#36]	
	7030005060	S.RES ERJ2GEJ 333 X (33K)	[#37]	
	7030005720	S.RES ERJ2GEJ 563 X (56K)	[#39]	
	7030005090	S.RES ERJ2GEJ 104 X (100K)	[#40]	
	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	[#41]	
	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	[#44]	
	7030008010	S.RES ERJ2GEJ 123 X (12K)	[#45]	
	7030009710	S.RES ERJ2GEJ 203 X (20K)	[#46]	
	7030005060	S.RES ERJ2GEJ 333 X (33K)	[#47]	
	7030005720	S.RES ERJ2GEJ 563 X (56K)	[#49]	
	7030005090	S.RES ERJ2GEJ 104 X (100K)	[#50]	
R29	7030011670	S.RES ERJ2RKF 3902 (39K)	B	94.3/48.8

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side) S.=Surface mount

## [LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R30	7030012320	S.RES ERJ2RKD 2203X (220K)	B	92.6/48.8
R34	7030004980	S.RES ERJ2GEJ 101 X (100)	B	106.6/38.2
R35	7030010040	S.RES ERJ2GEJ-JPW	B	101.7/37.8
R41	7030007510	S.RES ERJ12YJ270U (27)	B	142.2/73.3
R42	7030005110	S.RES ERJ2GEJ 224 X (220K)	B	143.0/66.8
R44	7030005000	S.RES ERJ2GEJ 471 X (470)	B	144.3/68.1
R45	7030009280	S.RES ERJ2GEJ 391 X	B	152.1/53.2
R46	7030009280	S.RES ERJ2GEJ 391 X	B	127.3/16.6
R47	7030009280	S.RES ERJ2GEJ 391 X	B	23.2/16.1
R50	7030005000	S.RES ERJ2GEJ 471 X (470)	B	73.5/85.4
R51	7030005000	S.RES ERJ2GEJ 471 X (470)	B	73.5/86.3
R52	7030005000	S.RES ERJ2GEJ 471 X (470)	B	73.5/87.2
R61	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	127.9/42.2
R62	7030005530	S.RES ERJ2GEJ 100 X (10)	B	50.8/61.2
R63	7030005170	S.RES ERJ2GEJ 474 X (470K)	B	64.6/61.2
R64	7030007350	S.RES ERJ2GEJ 393 X (39K)	B	66.3/50.3
R65	7030012740	S.RES ERJ2RHD 1602X (16.0K)	B	65.9/49.0
R66	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	B	66.8/49.0
R67	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	68.1/50.3
R71	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	127.9/45.3
R72	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	127.0/45.3
R75	7030008010	S.RES ERJ2GEJ 123 X (12K)	B	61.3/86.0
R76	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	58.3/84.5
R77	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	55.5/87.4
R83	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	85.2/47.7
R84	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	85.2/48.6
R85	7030004980	S.RES ERJ2GEJ 101 X (100)	B	83.9/48.2
R86	7030004980	S.RES ERJ2GEJ 101 X (100)	B	78.0/45.3
R88	7030013850	S.RES ERJ14YJ680U	B	57.5/82.5
R91	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	116.1/69.5
R92	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	111.4/75.8
R93	7030005530	S.RES ERJ2GEJ 100 X (10)	B	108.8/76.4
R94	7030008290	S.RES ERJ2GEJ 183 X (18K)	B	114.7/73.7
R95	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	111.7/71.4
R101	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	135.0/63.8
R102	7030004970	S.RES ERJ2GEJ 470 X (47)	B	134.9/65.2
R105	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	125.7/64.6
R106	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	126.6/64.6
R107	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	128.2/64.2
R108	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	133.9/59.9
R111	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	111.4/25.6
R112	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	111.4/22.3
R113	7030005000	S.RES ERJ2GEJ 471 X (470)	B	113.6/18.3
R115	7030011210	S.RES ERJ2GEJ 1R0 X (1)	B	115.1/29.9
R116	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	120.2/19.6
R117	7030004970	S.RES ERJ2GEJ 470 X (47)	B	118.9/18.2
R118	7030004970	S.RES ERJ2GEJ 470 X (47)	B	120.2/18.7
R119	7540000380	S.ABS EZAEG2A50AX	B	118.0/18.2
R120	7540000380	S.ABS EZAEG2A50AX	B	120.2/17.8
R121	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	25.6/20.0
R122	7030005530	S.RES ERJ2GEJ 100 X (10)	B	25.6/18.2
R123	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	27.6/20.0
R124	7030005530	S.RES ERJ2GEJ 100 X (10)	B	27.6/18.2
R125	7030010040	S.RES ERJ2GEJ-JPW	B	31.6/18.2
R126	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	105.3/82.0
R127	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	109.4/82.0
R128	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	104.4/82.0
R163	7030005170	S.RES ERJ2GEJ 474 X (470K)	[#06] B	52.6/61.2
	7030005170	S.RES ERJ2GEJ 474 X (470K)	[#07]	
	7030005170	S.RES ERJ2GEJ 474 X (470K)	[#16]	
	7030005170	S.RES ERJ2GEJ 474 X (470K)	[#17]	
	7030005170	S.RES ERJ2GEJ 474 X (470K)	[#26]	
	7030005170	S.RES ERJ2GEJ 474 X (470K)	[#27]	
	7030005170	S.RES ERJ2GEJ 474 X (470K)	[#36]	
	7030005170	S.RES ERJ2GEJ 474 X (470K)	[#37]	
	7030005170	S.RES ERJ2GEJ 474 X (470K)	[#46]	
	7030005170	S.RES ERJ2GEJ 474 X (470K)	[#47]	
R164	7030007350	S.RES ERJ2GEJ 393 X (39K)	[#06] B	54.3/50.3
	7030007350	S.RES ERJ2GEJ 393 X (39K)	[#07]	
	7030007350	S.RES ERJ2GEJ 393 X (39K)	[#16]	
	7030007350	S.RES ERJ2GEJ 393 X (39K)	[#17]	
	7030007350	S.RES ERJ2GEJ 393 X (39K)	[#26]	
	7030007350	S.RES ERJ2GEJ 393 X (39K)	[#27]	
	7030007350	S.RES ERJ2GEJ 393 X (39K)	[#36]	
	7030007350	S.RES ERJ2GEJ 393 X (39K)	[#37]	
	7030007350	S.RES ERJ2GEJ 393 X (39K)	[#46]	
	7030007350	S.RES ERJ2GEJ 393 X (39K)	[#47]	
R165	7030012740	S.RES ERJ2RHD 1602X (16.0K)	[#06] B	53.9/48.9
	7030012740	S.RES ERJ2RHD 1602X (16.0K)	[#07]	
	7030012740	S.RES ERJ2RHD 1602X (16.0K)	[#16]	
	7030012740	S.RES ERJ2RHD 1602X (16.0K)	[#17]	
	7030012740	S.RES ERJ2RHD 1602X (16.0K)	[#26]	
	7030012740	S.RES ERJ2RHD 1602X (16.0K)	[#27]	
	7030012740	S.RES ERJ2RHD 1602X (16.0K)	[#36]	
	7030012740	S.RES ERJ2RHD 1602X (16.0K)	[#37]	
	7030012740	S.RES ERJ2RHD 1602X (16.0K)	[#46]	
	7030012740	S.RES ERJ2RHD 1602X (16.0K)	[#47]	
R166	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	[#06] B	54.8/48.9
	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	[#07]	
	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	[#16]	
	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	[#17]	
	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	[#26]	
	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	[#27]	
	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	[#36]	
	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	[#37]	
	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	[#46]	
	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	[#47]	

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

## [LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION			M.	H/V LOCATION
R167	7030005090	S.RES	ERJ2GEJ 104 X (100K)	[#06]	B	56.1/50.3
	7030005090	S.RES	ERJ2GEJ 104 X (100K)	[#07]		
	7030005090	S.RES	ERJ2GEJ 104 X (100K)	[#16]		
	7030005090	S.RES	ERJ2GEJ 104 X (100K)	[#17]		
	7030005090	S.RES	ERJ2GEJ 104 X (100K)	[#26]		
	7030005090	S.RES	ERJ2GEJ 104 X (100K)	[#27]		
	7030005090	S.RES	ERJ2GEJ 104 X (100K)	[#36]		
	7030005090	S.RES	ERJ2GEJ 104 X (100K)	[#37]		
	7030005090	S.RES	ERJ2GEJ 104 X (100K)	[#46]		
R221	7030005090	S.RES	ERJ2GEJ 104 X (100K)	[#47]	B	76.0/77.7
	7030010040	S.RES	ERJ2GEJ-JPW			
C1	4030016930	S.CER	C1005 JB 1A 104K-T		B	120.3/38.7
C2	4030016790	S.CER	C1005 JB 1E 103K-T		B	120.3/37.8
C3	4030017460	S.CER	C1005 JB 1H 102K-T		B	120.3/36.9
C4	4030016930	S.CER	C1005 JB 1A 104K-T		B	110.9/39.0
C5	4030016790	S.CER	C1005 JB 1E 103K-T		B	110.9/38.1
C6	4030017460	S.CER	C1005 JB 1H 102K-T		B	110.9/37.2
C7	4030016930	S.CER	C1005 JB 1A 104K-T		B	93.8/43.9
C8	4030016790	S.CER	C1005 JB 1E 103K-T		B	92.9/43.9
C9	4030017460	S.CER	C1005 JB 1H 102K-T		B	92.0/43.9
C10	4030016930	S.CER	C1005 JB 1A 104K-T		B	95.2/64.8
C11	4030016790	S.CER	C1005 JB 1E 103K-T		B	94.3/64.8
C12	4030017460	S.CER	C1005 JB 1H 102K-T		B	93.4/64.8
C13	4030016930	S.CER	C1005 JB 1A 104K-T		B	104.9/66.8
C14	4030016790	S.CER	C1005 JB 1E 103K-T		B	104.9/67.7
C15	4030017460	S.CER	C1005 JB 1H 102K-T		B	104.9/68.6
C16	4030016930	S.CER	C1005 JB 1A 104K-T		B	118.9/66.8
C17	4030016790	S.CER	C1005 JB 1E 103K-T		B	118.9/67.7
C18	4030017460	S.CER	C1005 JB 1H 102K-T		B	118.9/68.6
C19	4030016930	S.CER	C1005 JB 1A 104K-T		B	123.8/56.9
C20	4030016790	S.CER	C1005 JB 1E 103K-T		B	124.7/56.9
C21	4550007670	S.TAN	F931C105MAABMA		B	87.1/82.4
C22	4550007670	S.TAN	F931C105MAABMA		B	89.2/82.4
C23	4550007660	S.TAN	F931E105MAABMA		B	92.1/89.6
C24	4030020280	S.CER	GRM21BB11C105KA01L		B	85.1/83.0
C26	4030020300	S.CER	GRM21BB31C475KA87L		B	91.2/64.7
C27	4030017460	S.CER	C1005 JB 1H 102K-T		B	125.6/56.9
C29	4030016950	S.CER	C1005 JB 1A 473K-T		B	92.6/50.2
C30	4030016950	S.CER	C1005 JB 1A 473K-T		B	92.6/47.8
C31	4030016950	S.CER	C1005 JB 1A 473K-T		B	94.3/47.2
C32	4030016950	S.CER	C1005 JB 1A 473K-T		B	93.0/46.3
C33	4030016950	S.CER	C1005 JB 1A 473K-T		B	94.3/49.7
C35	4030016950	S.CER	C1005 JB 1A 473K-T		B	105.3/37.8
C36	4030016950	S.CER	C1005 JB 1A 473K-T		B	104.4/37.8
C37	4030016950	S.CER	C1005 JB 1A 473K-T		B	103.5/37.8
C38	4030016950	S.CER	C1005 JB 1A 473K-T		B	102.6/37.8
C39	4030016950	S.CER	C1005 JB 1A 473K-T		B	99.9/37.8
C40	4030016950	S.CER	C1005 JB 1A 473K-T		B	99.0/37.8
C43	4030017410	S.CER	C1005 CH 1H 240J-T		B	108.3/37.3
C44	4030017410	S.CER	C1005 CH 1H 240J-T		B	106.6/37.3
C46	4030017460	S.CER	C1005 JB 1H 102K-T		B	83.7/84.9
C47	4030016930	S.CER	C1005 JB 1A 104K-T		B	82.8/84.9
C51	4030017460	S.CER	C1005 JB 1H 102K-T		B	146.0/71.5
C52	4030018900	S.CER	C1005 JB 0J 474K-T		B	143.4/68.1
C53	4030017460	S.CER	C1005 JB 1H 102K-T		B	144.3/69.8
C54	4030019990	S.CER	C1005 JB 1C 104K-T		B	76.0/85.7
C55	4030017460	S.CER	C1005 JB 1H 102K-T		B	76.0/84.8
C56	4030017460	S.CER	C1005 JB 1H 102K-T		B	73.5/84.5
C57	4030016930	S.CER	C1005 JB 1A 104K-T		B	130.0/51.0
C61	4030016790	S.CER	C1005 JB 1E 103K-T		B	127.0/42.2
C62	4030017760	S.CER	C1005 JB 1H 222K-T		B	49.9/61.2
C63	4030019990	S.CER	C1005 JB 1C 104K-T		B	63.0/61.2
C64	4030016790	S.CER	C1005 JB 1E 103K-T		B	67.3/61.2
C65	4030018890	S.CER	C1005 JB 0J 224K-T		B	65.5/61.2
C66	4030017760	S.CER	C1005 JB 1H 222K-T		B	68.6/49.0
C67	4030016930	S.CER	C1005 JB 1A 104K-T		B	69.5/49.0
C68	4030016790	S.CER	C1005 JB 1E 103K-T		B	67.7/49.0
C69	4340000310	S.MYL	ECHU 1C 333JX5		B	62.7/49.8
C71	4030017920	S.CER	C1005 JB 1A 683K-T		B	58.3/88.4
C72	4030017480	S.CER	C1608 JB 1A 474K-T		B	56.7/86.3
C74	4030017460	S.CER	C1005 JB 1H 102K-T		B	60.4/86.0
C81	4030016930	S.CER	C1005 JB 1A 104K-T		B	87.2/42.9
C82	4030017460	S.CER	C1005 JB 1H 102K-T		B	70.8/62.5
C83	4030019990	S.CER	C1005 JB 1C 104K-T		B	86.9/48.6
C84	4030017460	S.CER	C1005 JB 1H 102K-T		B	86.9/47.7
C85	4030020300	S.CER	GRM21BB31C475KA87L		B	51.9/91.6
C86	4030017460	S.CER	C1005 JB 1H 102K-T		B	51.4/90.2
C87	4030016790	S.CER	C1005 JB 1E 103K-T		B	53.6/90.2
C88	4030020240	S.CER	GRM31CR11C475KA01L		B	52.5/82.7
C89	4030017460	S.CER	C1005 JB 1H 102K-T		B	79.4/46.6
C91	4030016930	S.CER	C1005 JB 1A 104K-T		B	116.1/71.4
C92	4030017460	S.CER	C1005 JB 1H 102K-T		B	112.8/76.4
C95	4030016790	S.CER	C1005 JB 1E 103K-T		B	133.9/60.8
C96	4030016930	S.CER	C1005 JB 1A 104K-T		B	138.6/61.4
C101	4030016930	S.CER	C1005 JB 1A 104K-T		B	110.5/25.6
C102	4030016790	S.CER	C1005 JB 1E 103K-T		B	111.4/23.9
C103	4030017920	S.CER	C1005 JB 1A 683K-T		B	115.2/18.7
C104	4030017460	S.CER	C1005 JB 1H 102K-T		B	112.4/17.8
C105	4030017460	S.CER	C1005 JB 1H 102K-T		B	115.2/17.8
C106	4030016930	S.CER	C1005 JB 1A 104K-T		B	122.1/26.8
C111	4030016790	S.CER	C1005 JB 1E 103K-T		B	51.9/67.3
C112	4030020310	S.CER	GRM31CB31C106KA88L		B	47.0/65.1
C113	4030016790	S.CER	C1005 JB 1E 103K-T		B	49.9/67.3
C114	4030017460	S.CER	C1005 JB 1H 102K-T		B	50.9/67.3
C115	4030017460	S.CER	C1005 JB 1H 102K-T		B	48.4/77.7
C116	4030017460	S.CER	C1005 JB 1H 102K-T		B	49.4/77.7
C155	4030016790	S.CER	C1005 JB 1E 103K-T		B	50.4/77.7
C162	4030016930	S.CER	C1005 JB 1A 104K-T		B	28.9/19.5
C165	4030017460	S.CER	C1005 JB 1H 102K-T		B	38.1/17.8
C166	4030017460	S.CER	C1005 JB 1H 102K-T		B	40.1/17.8



## [LOGIC UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C174	4030016790	S.CER C1005 JB 1E 103K-T	B	51.7/61.2
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
C175	4030018890	S.CER C1005 JB 0J 224K-T	B	53.5/61.2
	4030018890	S.CER C1005 JB 0J 224K-T		
	4030018890	S.CER C1005 JB 0J 224K-T		
	4030018890	S.CER C1005 JB 0J 224K-T		
	4030018890	S.CER C1005 JB 0J 224K-T		
	4030018890	S.CER C1005 JB 0J 224K-T		
	4030018890	S.CER C1005 JB 0J 224K-T		
	4030018890	S.CER C1005 JB 0J 224K-T		
	4030018890	S.CER C1005 JB 0J 224K-T		
	4030018890	S.CER C1005 JB 0J 224K-T		
C176	4030017760	S.CER C1005 JB 1H 222K-T	B	56.6/48.9
	4030017760	S.CER C1005 JB 1H 222K-T		
	4030017760	S.CER C1005 JB 1H 222K-T		
	4030017760	S.CER C1005 JB 1H 222K-T		
	4030017760	S.CER C1005 JB 1H 222K-T		
	4030017760	S.CER C1005 JB 1H 222K-T		
	4030017760	S.CER C1005 JB 1H 222K-T		
	4030017760	S.CER C1005 JB 1H 222K-T		
	4030017760	S.CER C1005 JB 1H 222K-T		
	4030017760	S.CER C1005 JB 1H 222K-T		
C177	4030016930	S.CER C1005 JB 1A 104K-T	B	57.5/48.9
	4030016930	S.CER C1005 JB 1A 104K-T		
	4030016930	S.CER C1005 JB 1A 104K-T		
	4030016930	S.CER C1005 JB 1A 104K-T		
	4030016930	S.CER C1005 JB 1A 104K-T		
	4030016930	S.CER C1005 JB 1A 104K-T		
	4030016930	S.CER C1005 JB 1A 104K-T		
	4030016930	S.CER C1005 JB 1A 104K-T		
	4030016930	S.CER C1005 JB 1A 104K-T		
	4030016930	S.CER C1005 JB 1A 104K-T		
C178	4030016790	S.CER C1005 JB 1E 103K-T	B	55.7/48.9
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
	4030016790	S.CER C1005 JB 1E 103K-T		
C179	4340000310	S.MYL ECHU 1C 333JX5	B	50.7/49.8
	4340000310	S.MYL ECHU 1C 333JX5		
	4340000310	S.MYL ECHU 1C 333JX5		
	4340000310	S.MYL ECHU 1C 333JX5		
	4340000310	S.MYL ECHU 1C 333JX5		
	4340000310	S.MYL ECHU 1C 333JX5		
	4340000310	S.MYL ECHU 1C 333JX5		
	4340000310	S.MYL ECHU 1C 333JX5		
	4340000310	S.MYL ECHU 1C 333JX5		
	4340000310	S.MYL ECHU 1C 333JX5		
J1	6510022472	S.CON 40FLT-SM2-TB(LF)(SN)(M)	B	57.7/73.0
J2	6510021722	S.CON 30FLT-SM2-TB(LF)(SN)(M)	B	78.8/73.0
J3	6510030260	S.CON BM04B-PASS-TF(LF)(SN)	B	116.6/11.2
J4	6510018921	S.CON B8B-PH-SM4-TB(LF)(SN)	B	32.6/11.5
J8	6510022022	S.CON 14FLT-SM2-TB(LF)(SN)(M)	B	74.5/33.1
J9	6510028221	S.CON AYF532265T	B	81.7/89.4
J10	6510019421	S.CON B8B-ZR-SM4-TF(LF)(SN)	B	131.8/86.5
J11	6510027570	S.CON B7B-ZR-SM4-TF(LF)(SN)	B	109.3/86.5
DS1	5030003860	LCD 888BK01012 <SKD>	T	150.5/79.9
DS2	5040003310	S.LED L-C191KYCT <KOU>	T	154.5/53.2
DS3	5040003310	S.LED L-C191KYCT <KOU>	B	154.4/53.2
DS4	5040003310	S.LED L-C191KYCT <KOU>	T	136.1/65.5
DS5	5040003310	S.LED L-C191KYCT <KOU>	T	132.6/53.2
DS6	5040003310	S.LED L-C191KYCT <KOU>	T	122.1/17.1
DS7	5040003310	S.LED L-C191KYCT <KOU>	T	99.1/22.4
DS8	5040003310	S.LED L-C191KYCT <KOU>	T	64.3/22.4
DS9	5040003310	S.LED L-C191KYCT <KOU>	T	32.4/12.6
DS10	5040003310	S.LED L-C191KYCT <KOU>	T	
EP13	6910016330	S.BEA MMZ1005S 601CT-S	B	33.6/18.2
EP14	6910019100	S.BEA MPZ1608S101AT	B	38.3/20.4
EP15	6910019100	S.BEA MPZ1608S101AT	B	39.6/20.4

## [DIAL UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
J1	6510030480	CON IMSA-9210B-1-04ZA311-PT1		
S1	2250000730	ENC TP90N245AE20PY-14.5F-3338		

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

REF NO.	PARTS NO.	DESCRIPTION		M.	H/V LOCATION
R1	7210003431	VAR	F09117N-8 B10K L15KQ-1 <SLVJ>		
J1	6510030470	CON	IMSA-9210B-1-03ZA311-PT1		

REF NO.	PARTS NO.	DESCRIPTION		M.	H/V LOCATION
R1	7210003431	VAR	F09117N-8 B10K L15KQ-1 <SLVJ>		
J1	6510030470	CON	IMSA-9210B-1-03ZA311-PT1		

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# [CONNECT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C1	4030016790	S.CER C1005 JB 1E 103K-T	B	7.8/13.5
J1	6510030290	CON ICOM-CCBPM08MCC <ODS>	B	8.5/18.3
J2	6510025142	S.CON 10FLT-SM2-TB(LF)(SN)(M)		
EP2	6910019100	S.BEA MPZ1608S101AT	B	6.3/13.1

# • NMEA2000 UNIT (UX-232)

## [MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1140017121	S.IC STM32F103RCT6(EX3572A1) <TOMEN>	T	22.5/33.5
IC2	1110007780	S.IC NJU7704F3-28A-TE1-#ZZZH	T	24.5/12.2
IC3	1130016110	S.IC TC7WH14FK(TE85LF) *0	T	11.5/12.2
Q1	1510001090	S.TRA KTA2015Y-RTK/P	T	24.5/8.2
Q2	1590004070	S.TRA LDTC144EET1G <SLVJ>	T	23.3/4.4
Q3	1510001151	S.TRA L2SA1576AST1G <SLVJ>	T	10.3/8.2
Q4	1530004140	S.TRA L2SC4081RT1G <SLVJ>	T	11.5/4.3
D1	1750001810	S.DIO L1SS400T1G <SLVJ>	T	9.6/2.8
X1	6050013880	S.XTA CR-984 (TQU5594) 8.0 MHz	T	21.9/22.1
R1	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	24.1/10.2
R3	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	22.7/7.7
R4	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	23.1/6.2
R5	7410001230	S.ARR EXB28V101JX	T	19.8/14.9
R11	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	21.8/25.2
R12	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	11.2/16.1
R13	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	10.4/39.7
R14	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	12.8/17.9
R15	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	12.8/18.8
R16	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	30.8/35.4
R17	7410001330	S.ARR EXB24V101JX	T	17.8/14.9
R19	7030010040	S.RES ERJ2GEJ-JPW	T	13.3/43.6
R21	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	10.0/6.3
R22	7030008290	S.RES ERJ2GEJ 183 X (18K)	T	9.6/5.0
R23	7030005530	S.RES ERJ2GEJ 100 X (10)	T	14.4/2.7
R24	7030008290	S.RES ERJ2GEJ 183 X (18K)	T	12.2/6.8
R25	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	8.5/8.2
C1	4030016930	S.CER C1005 JB 1A 104K-T	T	14.2/30.0
C2	4030016930	S.CER C1005 JB 1A 104K-T	T	26.1/25.2
C3	4030016930	S.CER C1005 JB 1A 104K-T	T	30.8/30.3
C4	4030016930	S.CER C1005 JB 1A 104K-T	T	30.8/37.1
C5	4030016930	S.CER C1005 JB 1A 104K-T	T	19.2/41.8
C6	4030016930	S.CER C1005 JB 1A 104K-T	T	1.8/43.4
C7	4030017460	S.CER C1005 JB 1H 102K-T	T	1.7/28.2
C8	4030019500	S.CER GRM21BB31A106KE18 (GRM40 B)	T	27.7/9.3
C9	4030017460	S.CER C1005 JB 1H 102K-T	T	26.3/8.6
C10	4030016930	S.CER C1005 JB 1A 104K-T	T	13.3/11.8
C11	4030017660	S.CER C1005 CH 1H 330J-T	T	20.3/18.9
C12	4030017660	S.CER C1005 CH 1H 330J-T	T	23.3/18.9
C13	4030017460	S.CER C1005 JB 1H 102K-T	T	14.4/1.8
C25	4030017460	S.CER C1005 JB 1H 102K-T	T	16.2/10.7
J1	6510022692	S.CON 06FLT-SM2-TB(LF)(SN)(M)	T	13.0/47.3
J2	6510022022	S.CON 14FLT-SM2-TB(LF)(SN)(M)	T	17.5/6.5
J3	6510021441	S.CON B6B-ZR-SM4-TF(LF)(SN)	T	7.6/37.0
J4	6510019421	S.CON B8B-ZR-SM4-TF(LF)(SN)	T	7.6/20.0

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

# [CONNECT UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1180001862	S.IC TA78M05F(TE16L1NQ)	T	7.4/7.0
IC2	1130014420	S.IC HA13721FPKEL-E	T	18.5/10.8
IC3	1130011930	S.IC SN74LVC1G04DCKR	T	18.3/3.5
IC4	1190002840	S.IC PC410L0NIP0F	T	23.5/7.2
IC5	1190002840	S.IC PC410L0NIP0F	T	27.7/7.2
IC6	1130017240	S.IC SN74AHC1G04DCKR	T	27.0/13.7
D1	1750001670	S.DIO RR264M-400TR	T	10.0/19.1
R1	7030010540	S.RES ERJ1TYJ 330U (33)	T	4.6/21.9
R2	7030010540	S.RES ERJ1TYJ 330U (33)	T	4.6/18.2
R3	7030007280	S.RES ERJ2GEJ 331 X (330)	T	21.8/2.0
R4	7030008370	S.RES ERJ2GEJ 561 X (560)	T	23.8/14.8
R5	7030008370	S.RES ERJ2GEJ 561 X (560)	T	18.8/5.3
R6	7030007280	S.RES ERJ2GEJ 331 X (330)	T	27.8/11.7
R12	7030010040	S.RES ERJ2GEJ-JPW	T	32.7/12.4
C1	4030007090	S.CER C1608 CH 1H 470J-T	T	10.3/22.2
C3	4510009810	S.ELE EEEFK1E220R	T	5.6/13.4
C4	4030018980	S.CER C1608 JB 1H 104K-T ATEX	T	2.0/8.4
C5	4030018980	S.CER C1608 JB 1H 104K-T ATEX	T	2.0/5.6
C6	4030020310	S.CER GRM31CB31C106KA88L	T	7.8/2.4
C7	4030020310	S.CER GRM31CB31C106KA88L	T	14.9/2.9
C8	4030018980	S.CER C1608 JB 1H 104K-T ATEX	T	25.0/2.1
C9	4030018980	S.CER C1608 JB 1H 104K-T ATEX	T	18.4/6.4
C10	4030018980	S.CER C1608 JB 1H 104K-T ATEX	T	20.5/3.5
C11	4030018980	S.CER C1608 JB 1H 104K-T ATEX	T	27.0/15.9
C12	4030018980	S.CER C1608 JB 1H 104K-T ATEX	T	24.2/15.9
J1	6510030360	CON ICOM-MMAPM05MCC <ODS>		
J2	6510022692	S.CON 06FLT-SM2-TB(LF)(SN)(M)	T	26.5/19.7
EP2	6910018270	S.BEA MMZ1608Y301CT	T	10.3/23.5
EP3	6910018270	S.BEA MMZ1608Y301CT1	T	23.1/19.0

# • AIS UNIT (UX-231)

## [MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC2	1110007320	S.IC NJM2591V-TE1-#ZZZB	T	32.2/10.7
IC3	1130015790	S.IC EN25F10-100GIP <MSK>	T	18.2/52.0
IC4	1180002561	S.REG XC6202P352PR-G	T	22.0/44.5
IC5	1130014980	S.IC BU4331G-TR	T	16.2/44.6
IC6	1130006551	S.IC TC7S08FU(TE85RF)	T	9.6/24.0
IC7	1130008821	S.IC TC7S86F(TE85RF) *0	T	13.6/25.3
IC8	1190002850	S.IC CMX7032L9/TR (FI-2.0)	T	9.6/35.5
Q1	1580000731	S.FET 3SK293(TE85LF)	T	33.2/34.3
Q2	1530002601	S.TRA 2SC4215-O(TE85RF)	T	22.8/30.6
Q3	1530002060	S.TRA 2SC4081 T106 R	T	23.0/36.8
D2	1750002010	S.DIO DA2J10100L	T	25.7/48.6
F11	2040002130	S.SAW LBT16201 <EVT>	T	37.0/41.1
F12	2030001070	S.MON TMK5286 38.85 MHz (FL-470)	T	28.0/27.7
F13	2030001070	S.MON TMK5286 38.85 MHz (FL-470)	T	28.0/19.0
F14	2020002480	S.CER LTWC450E1 <JJE>	T	5.3/14.1
F15	2030001080	S.MON TMK5287 38.8 MHz (FL-473)	T	37.0/27.0
F16	2030001080	S.MON TMK5287 38.8 MHz (FL-473)	T	39.3/19.0
F17	2020002480	S.CER LTWC450E1 <JJE>	T	23.8/7.7
X1	6050013660	S.XTA CR-963 DSB321SCM 41.058333 MHz	T	22.1/23.0
X2	6070000310	S.DIS JTBM450CX70 <JJE>	T	13.5/11.0
X3	6050013730	S.XTA CR-968 DSX321G 38.35 MHz	T	34.8/15.4
X4	6070000310	S.DIS JTBM450CX70 <JJE>	T	32.0/4.6
X5	6050013960	S.XTA CR-869A DSA321SCH 19.2 MHz	T	4.9/24.5
L1	6200009930	S.COI C2012C-68NG-A	T	37.2/48.1
L2	6200011220	S.COI C2012C-R47J-A	T	30.8/34.8
L3	6200002651	S.COI NLV25T-R18J	T	23.1/25.8
L4	6200009560	S.COI MLG1608B R10J-T	T	20.8/30.5
L5	6200009560	S.COI MLG1608B R10J-T	T	20.4/36.4
L6	6200015290	S.COI C2012H-5N6D-R-0231	T	22.8/39.6
L7	6200015290	S.COI C2012H-5N6D-R-0231	T	27.8/39.6
L10	6200003941	S.COI NLV25T-5R6J	T	14.1/21.2
L11	6200009970	S.COI C2012C-R39G-A	T	25.3/39.6
L12	6200009970	S.COI C2012C-R39G-A	T	30.6/38.4
L13	6200015250	S.COI C2012H-27NH-R-0231	T	41.1/34.3
R1	7030008280	S.RES ERJ2GEJ 271 X (270)	T	38.6/35.1
R2	7030007350	S.RES ERJ2GEJ 393 X (39K)	T	35.0/33.5
R3	7030008300	S.RES ERJ2GEJ 184 X (180K)	T	36.8/33.5
R4	7030007350	S.RES ERJ2GEJ 393 X (39K)	T	35.0/35.1
R5	7030008300	S.RES ERJ2GEJ 184 X (180K)	T	35.9/35.1
R6	7030005530	S.RES ERJ2GEJ 100 X (10)	T	36.8/35.1
R7	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	28.3/35.1
R8	7030005530	S.RES ERJ2GEJ 100 X (10)	T	26.9/33.9
R9	7030007280	S.RES ERJ2GEJ 331 X (330)	T	19.6/23.8
R10	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	T	23.4/27.8
R11	7030008010	S.RES ERJ2GEJ 123 X (12K)	T	23.4/28.8
R12	7030004980	S.RES ERJ2GEJ 101 X (100)	T	23.4/33.3
R13	7030005530	S.RES ERJ2GEJ 100 X (10)	T	21.1/32.2
R14	7030005720	S.RES ERJ2GEJ 563 X (56K)	T	23.5/35.1
R15	7030004990	S.RES ERJ2GEJ 221 X (220)	T	21.1/33.1
R16	7030009280	S.RES ERJ2GEJ 391 X	T	32.2/30.7
R17	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	23.9/17.5
R23	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	11.6/20.4
R24	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	T	18.1/12.3
R25	7030004970	S.RES ERJ2GEJ 470 X (47)	T	11.6/22.2
R26	7030009280	S.RES ERJ2GEJ 391 X	T	33.1/30.7
R27	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	39.3/13.4
R33	7030010040	S.RES ERJ2GEJ-JPW	T	32.5/15.8
R34	7030007350	S.RES ERJ2GEJ 393 X (39K)	T	32.5/14.9
R35	7030008410	S.RES ERJ2GEJ 392 X (3.9K)	T	36.7/5.9
R36	7030004970	S.RES ERJ2GEJ 470 X (47)	T	25.2/14.3
R37	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	17.7/48.7
R38	7030009320	S.RES ERJ2GEJ 4R7 X (4.7)	T	14.5/48.7
R40	7030009320	S.RES ERJ2GEJ 4R7 X (4.7)	T	26.9/46.9
R41	7030005170	S.RES ERJ2GEJ 474 X (470K)	T	14.0/45.4
R42	7030009710	S.RES ERJ2GEJ 203 X (20K)	T	7.8/26.4
R43	7030007340	S.RES ERJ2GEJ 153 X (15K)	T	2.9/25.3
R44	7030005530	S.RES ERJ2GEJ 100 X (10)	T	6.9/24.8
R45	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	7.8/24.8
R46	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	7.8/23.2
R47	7030005530	S.RES ERJ2GEJ 100 X (10)	T	9.0/26.3
R48	7030005000	S.RES ERJ2GEJ 471 X (470)	T	11.4/25.8
R49	7030005530	S.RES ERJ2GEJ 100 X (10)	T	16.7/25.5
R50	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	16.2/24.2
R51	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	17.1/22.6
R52	7030005530	S.RES ERJ2GEJ 100 X (10)	T	18.6/41.9
R53	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	2.2/41.9
R54	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	2.2/43.7
R55	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	2.2/42.8
R56	7030007260	S.RES ERJ2GEJ 330 X (33)	T	18.6/28.7
R57	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	15.8/28.7
R58	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	16.0/5.2
R59	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	16.7/27.1
R60	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	15.0/5.2
R61	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	16.0/3.6
R62	7030009140	S.RES ERJ2GEJ 272 X (2.7K)	T	15.0/3.6
R64	7030010040	S.RES ERJ2GEJ-JPW	T	2.2/40.1
R67	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	10.1/46.9
R68	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	8.5/46.9
R69	7030004980	S.RES ERJ2GEJ 101 X (100)	T	6.9/46.9
R70	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	5.3/46.9

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side) S.=Surface mount

[MAIN UNIT]

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R71	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	17.7/28.7
R72	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	16.7/28.7
R73	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	16.0/6.8
R74	7030005090	S.RES ERJ2GEJ 104 X (100K)	T	15.0/6.8
R75	7030007280	S.RES ERJ2GEJ 331 X (330)	T	13.1/43.8
C1	4030017390	S.CER C1005 CH 1H 180J-T	T	34.7/48.1
C2	4030016790	S.CER C1005 JB 1E 103K-T	T	37.7/35.1
C4	4030017640	S.CER C1005 CH 1H 150J-T	T	39.5/33.5
C5	4030017760	S.CER C1005 JB 1H 222K-T	T	35.9/33.5
C6	4030017760	S.CER C1005 JB 1H 222K-T	T	37.7/33.5
C7	4030018010	S.CER C1005 CH 1H 360J-T	T	29.2/35.1
C9	4030017040	S.CER C1005 JB 1A 333K-T	T	26.5/35.1
C10	4030017760	S.CER C1005 JB 1H 222K-T	T	31.6/32.8
C11	4030017040	S.CER C1005 JB 1A 333K-T	T	29.2/33.5
C12	4030019990	S.CER C1005 JB 1C 104K-T	T	28.3/33.5
C13	4030016790	S.CER C1005 JB 1E 103K-T	T	25.6/35.1
C14	4030020000	S.CER C1005 JB 1A 105K-T	T	19.6/22.2
C15	4030017620	S.CER C1005 CH 1H 100C-T	T	20.6/25.0
C16	4030017680	S.CER C1005 CH 1H 820J-T	T	20.6/25.9
C17	4030017620	S.CER C1005 CH 1H 100C-T	T	20.6/26.8
C18	4030017390	S.CER C1005 CH 1H 180J-T	T	23.5/34.2
C19	4030017760	S.CER C1005 JB 1H 222K-T	T	23.4/32.4
C20	4030017760	S.CER C1005 JB 1H 222K-T	T	21.8/28.8
C21	4030017640	S.CER C1005 CH 1H 150J-T	T	20.2/38.5
C22	4030017760	S.CER C1005 JB 1H 222K-T	T	21.4/35.2
C24	4030017710	S.CER C1005 CH 1H 181J-T	T	21.2/38.3
C25	4030017370	S.CER C1005 CH 1H 3R5B-T	T	25.9/38.0
C27	4030017710	S.CER C1005 CH 1H 181J-T	T	30.6/40.9
C28	4030017760	S.CER C1005 JB 1H 222K-T	T	30.6/40.0
C30	4030017380	S.CER C1005 CH 1H 050B-T	T	30.9/23.4
C32	4030020000	S.CER C1005 JB 1A 105K-T	T	22.3/34.8
C34	4030017350	S.CER C1005 CH 1H 020B-T	T	16.2/22.6
C36	4030017630	S.CER C1005 CH 1H 120J-T	T	16.2/21.0
C37	4030017040	S.CER C1005 JB 1A 333K-T	T	23.0/17.5
C38	4030017350	S.CER C1005 CH 1H 020B-T	T	11.6/21.3
C39	4030019990	S.CER C1005 JB 1C 104K-T	T	9.4/18.7
C40	4030017670	S.CER C1005 CH 1H 390J-T	T	18.1/15.6
C41	4030019990	S.CER C1005 JB 1C 104K-T	T	9.4/9.0
C42	4030019990	S.CER C1005 JB 1C 104K-T	T	9.4/14.9
C43	4030019990	S.CER C1005 JB 1C 104K-T	T	18.1/13.2
C44	4030017040	S.CER C1005 JB 1A 333K-T	T	18.1/14.1
C45	4030017760	S.CER C1005 JB 1H 222K-T	T	18.1/18.0
C46	4030017040	S.CER C1005 JB 1A 333K-T	T	10.4/20.8
C47	4030020310	S.CER GRM31CB31C106KA88L	T	7.2/21.3
C49	4030017380	S.CER C1005 CH 1H 050B-T	T	39.7/23.7
C54	4030017040	S.CER C1005 JB 1A 333K-T	T	37.7/14.3
C55	4030017390	S.CER C1005 CH 1H 180J-T	T	31.3/15.4
C56	4030017660	S.CER C1005 CH 1H 330J-T	T	32.5/14.0
C57	4030017570	S.CER C1005 CH 1H 040B-T	T	30.9/14.0
C58	4030019990	S.CER C1005 JB 1C 104K-T	T	27.9/12.3
C59	4030017670	S.CER C1005 CH 1H 390J-T	T	36.7/9.2
C60	4030019990	S.CER C1005 JB 1C 104K-T	T	27.9/2.6
C61	4030019990	S.CER C1005 JB 1C 104K-T	T	27.9/8.5
C62	4030019990	S.CER C1005 JB 1C 104K-T	T	36.7/6.8
C63	4030017040	S.CER C1005 JB 1A 333K-T	T	36.7/7.7
C64	4030017760	S.CER C1005 JB 1H 222K-T	T	36.7/11.6
C65	4030017040	S.CER C1005 JB 1A 333K-T	T	29.0/13.7
C66	4030020310	S.CER GRM31CB31C106KA88L	T	38.9/10.1
C67	4030019990	S.CER C1005 JB 1C 104K-T	T	16.1/48.7
C68	4030017760	S.CER C1005 JB 1H 222K-T	T	28.1/44.0
C69	4030019990	S.CER C1005 JB 1C 104K-T	T	29.9/44.0
C70	4030020000	S.CER C1005 JB 1A 105K-T	T	26.9/45.3
C71	4030017040	S.CER C1005 JB 1A 333K-T	T	26.0/45.3
C72	4030017760	S.CER C1005 JB 1H 222K-T	T	25.1/45.3
C73	4030017760	S.CER C1005 JB 1H 222K-T	T	25.1/43.7
C74	4030017040	S.CER C1005 JB 1A 333K-T	T	26.0/43.7
C75	4030020000	S.CER C1005 JB 1A 105K-T	T	26.9/43.7
C77	4030016790	S.CER C1005 JB 1E 103K-T	T	4.4/27.0
C78	4030019990	S.CER C1005 JB 1C 104K-T	T	6.9/26.4
C79	4030017430	S.CER C1005 CH 1H 101J-T	T	6.9/23.2
C80	4030019990	S.CER C1005 JB 1C 104K-T	T	9.9/26.3
C81	4030017400	S.CER C1005 CH 1H 220J-T	T	11.4/24.2
C82	4030019990	S.CER C1005 JB 1C 104K-T	T	15.8/25.5
C84	4030016790	S.CER C1005 JB 1E 103K-T	T	1.4/33.1
C86	4030016790	S.CER C1005 JB 1E 103K-T	T	1.4/34.1
C87	4030020310	S.CER GRM31CB31C106KA88L	T	1.3/25.3
C88	4030016790	S.CER C1005 JB 1E 103K-T	T	7.3/27.6
C89	4030016790	S.CER C1005 JB 1E 103K-T	T	2.9/27.7
C90	4030020310	S.CER GRM31CB31C106KA88L	T	18.1/38.6
C91	4030016790	S.CER C1005 JB 1E 103K-T	T	17.7/41.9
C92	4030016790	S.CER C1005 JB 1E 103K-T	T	16.8/41.9
C93	4030019990	S.CER C1005 JB 1C 104K-T	T	16.7/30.3
C94	4030016790	S.CER C1005 JB 1E 103K-T	T	17.9/29.9
C95	4030016790	S.CER C1005 JB 1E 103K-T	T	17.9/30.8
C96	4030020310	S.CER GRM31CB31C106KA88L	T	18.1/33.7
C97	4030017420	S.CER C1005 CH 1H 470J-T	T	14.9/28.7
C98	4030017420	S.CER C1005 CH 1H 470J-T	T	15.8/27.1
C101	4030017760	S.CER C1005 JB 1H 222K-T	T	16.9/3.6
C102	4030017760	S.CER C1005 JB 1H 222K-T	T	14.1/3.6
C103	4030017350	S.CER C1005 CH 1H 020B-T	T	33.2/36.1
C104	4030017650	S.CER C1005 CH 1H 270J-T	T	36.6/46.0
C105	4030017650	S.CER C1005 CH 1H 270J-T	T	41.1/36.4
C106	4030017400	S.CER C1005 CH 1H 220J-T	T	39.5/35.1
C107	4030017340	S.CER C1005 CH 1H 010B-T	T	38.6/33.5
J1	6510030460	CON IMSA-9210B-2-06Z236-GF		
J2	6510021411	S.CON S6B-ZR-SM4A-TF(LF)(SN)	T	7.2/52.0
EP1	6910016330	S.BEA MMZ1005S 601CT-S	T	21.1/34.0
EP3	6910016330	S.BEA MMZ1005S 601CT-S	T	29.0/44.0

Eqv.= This component is equivalent to the REF No. component listed above, and may be substituted on parts orders and repairs.

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

## SECTION 6

## MECHANICAL PARTS

## [CHASSIS PARTS]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510004881	MR-DSE-01-1 <GA>	1
W1	8920000790	CAB-1091	1
W2	8920000800	CAB-1092	1
W3**	8920000690	CAB-1073 <ODS>	[#31] 1
	8920000690	CAB-1073 <ODS>	[#34] 1
	8920000690	CAB-1073 <ODS>	[#35] 1
	8920000690	CAB-1073 <ODS>	[#36] 1
	8920000690	CAB-1073 <ODS>	[#37] 1
	8920000690	CAB-1073 <ODS>	[#39] 1
	8920000690	CAB-1073 <ODS>	[#41] 1
	8920000690	CAB-1073 <ODS>	[#41] 1
	8920000690	CAB-1073 <ODS>	[#44] 1
	8920000690	CAB-1073 <ODS>	[#45] 1
	8920000690	CAB-1073 <ODS>	[#46] 1
	8920000690	CAB-1073 <ODS>	[#47] 1
	8920000690	CAB-1073 <ODS>	[#49] 1
	8920000690	CAB-1073 <ODS>	[#50] 1
MP1	8010023020	3570 B-CHASSIS	[#01] 1
	8010023020	3570 B-CHASSIS	[#04] 1
	8010023020	3570 B-CHASSIS	[#05] 1
	8010023020	3570 B-CHASSIS	[#06] 1
	8010023020	3570 B-CHASSIS	[#07] 1
	8010023020	3570 B-CHASSIS	[#09] 1
	8010023020	3570 B-CHASSIS	[#10] 1
	8010023010	3570 A-CHASSIS	[#11] 1
	8010023010	3570 A-CHASSIS	[#14] 1
	8010023010	3570 A-CHASSIS	[#15] 1
	8010023010	3570 A-CHASSIS	[#16] 1
	8010023010	3570 A-CHASSIS	[#17] 1
	8010023010	3570 A-CHASSIS	[#19] 1
	8010023010	3570 A-CHASSIS	[#20] 1
	8010023010	3570 A-CHASSIS	[#21] 1
	8010023010	3570 A-CHASSIS	[#24] 1
	8010023010	3570 A-CHASSIS	[#25] 1
	8010023010	3570 A-CHASSIS	[#26] 1
	8010023010	3570 A-CHASSIS	[#27] 1
	8010023010	3570 A-CHASSIS	[#29] 1
	8010023010	3570 A-CHASSIS	[#30] 1
	8010022960	3570 CHASSIS	[#31] 1
	8010022960	3570 CHASSIS	[#34] 1
	8010022960	3570 CHASSIS	[#35] 1
	8010022960	3570 CHASSIS	[#36] 1
	8010022960	3570 CHASSIS	[#37] 1
	8010022960	3570 CHASSIS	[#39] 1
	8010022960	3570 CHASSIS	[#41] 1
	8010022960	3570 CHASSIS	[#41] 1
	8010022960	3570 CHASSIS	[#44] 1
	8010022960	3570 CHASSIS	[#45] 1
	8010022960	3570 CHASSIS	[#46] 1
	8010022960	3570 CHASSIS	[#47] 1
	8010022960	3570 CHASSIS	[#49] 1
	8010022960	3570 CHASSIS	[#50] 1
MP2	8930083990	3338 R-BUSH PLATE	1
MP3	8930084000	3338 A-R-BUSH PLATE Y1260	1
MP4	8930034300	1542 ANT SEAL <JST>	1
MP5	8510020500	3338 A-MODULE PLATE	1
MP6	8510020340	3338 MODULE COVER	[#04] 1
	8510020340	3338 MODULE COVER	[#05] 1
	8510020340	3338 MODULE COVER	[#06] 1
	8510020340	3338 MODULE COVER	[#07] 1
	8510020340	3338 MODULE COVER	[#09] 1
	8510020340	3338 MODULE COVER	[#14] 1
	8510020340	3338 MODULE COVER	[#15] 1
	8510020340	3338 MODULE COVER	[#16] 1
	8510020340	3338 MODULE COVER	[#17] 1
	8510020340	3338 MODULE COVER	[#19] 1
	8510020340	3338 MODULE COVER	[#24] 1
	8510020340	3338 MODULE COVER	[#25] 1
	8510020340	3338 MODULE COVER	[#26] 1
	8510020340	3338 MODULE COVER	[#27] 1
	8510020340	3338 MODULE COVER	[#29] 1
	8510020340	3338 MODULE COVER	[#34] 1
	8510020340	3338 MODULE COVER	[#35] 1
	8510020340	3338 MODULE COVER	[#36] 1
	8510020340	3338 MODULE COVER	[#37] 1
	8510020340	3338 MODULE COVER	[#39] 1
	8510020340	3338 MODULE COVER	[#44] 1
	8510020340	3338 MODULE COVER	[#45] 1
	8510020340	3338 MODULE COVER	[#46] 1
	8510020340	3338 MODULE COVER	[#47] 1
	8510020340	3338 MODULE COVER	[#49] 1
MP7	8930084010	3338 IC CLIP	1
MP8	8930059122	THERMAL SHEET (AJ)-2 TC400TXS (7X7)	1
MP11	8510021180	3570 CASE ASSEMBLY	1
MP13	8930058780	2577 SHEET	1
MP14	8930049040	INSULATION SHEETFQ	1
MP15	8930088950	3570 F-PACKING (TOP)	1

## [CHASSIS PARTS]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MP16	8930088980	3570 R-PACKING (TOP)	1
MP21	8810010610	PHB0 M3 X 8 SUS S (BT)	2
MP22	8810008661	PHBT M3 X 8 NI-ZC3	7
MP23	8810010021	PH BT M2.6X 8 NI-ZC3	2
MP24	8810010610	PHB0 M3 X 8 SUS S (BT)	6
MP25	8810010620	PHB0 M3 X12 SUS S	7
MP33	8930055040	2438 CAP <JST>	1
MP34	8930078850	3169 M12 CAP (TOT)	[#11] 1
	8930078850	3169 M12 CAP (TOT)	[#14] 1
	8930078850	3169 M12 CAP (TOT)	[#15] 1
	8930078850	3169 M12 CAP (TOT)	[#16] 1
	8930078850	3169 M12 CAP (TOT)	[#17] 1
	8930078850	3169 M12 CAP (TOT)	[#19] 1
	8930078850	3169 M12 CAP (TOT)	[#20] 1
	8930078850	3169 M12 CAP (TOT)	[#21] 1
	8930078850	3169 M12 CAP (TOT)	[#24] 1
	8930078850	3169 M12 CAP (TOT)	[#25] 1
	8930078850	3169 M12 CAP (TOT)	[#26] 1
	8930078850	3169 M12 CAP (TOT)	[#27] 1
	8930078850	3169 M12 CAP (TOT)	[#29] 1
	8930078850	3169 M12 CAP (TOT)	[#30] 1
	8930078850	3169 M12 CAP (TOT)	[#31] 1
	8930078850	3169 M12 CAP (TOT)	[#34] 1
	8930078850	3169 M12 CAP (TOT)	[#35] 1
	8930078850	3169 M12 CAP (TOT)	[#36] 1
	8930078850	3169 M12 CAP (TOT)	[#37] 1
	8930078850	3169 M12 CAP (TOT)	[#39] 1
	8930078850	3169 M12 CAP (TOT)	[#41] 1
	8930078850	3169 M12 CAP (TOT)	[#41] 1
	8930078850	3169 M12 CAP (TOT)	[#44] 1
	8930078850	3169 M12 CAP (TOT)	[#45] 1
	8930078850	3169 M12 CAP (TOT)	[#46] 1
	8930078850	3169 M12 CAP (TOT)	[#47] 1
	8930078850	3169 M12 CAP (TOT)	[#49] 1
	8930078850	3169 M12 CAP (TOT)	[#50] 1

## [MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510022472	40FLT-SM2-TB (LF) (SN) (M)	1
J2*	6510021722	30FLT-SM2-TB (LF) (SN) (M)	1
J3*	6510030260	BM04B-PASS-TF (LF) (SN)	1
J4*	6510025142	10FLT-SM2-TB (LF) (SN) (M)	1
J5*	6510030280	I/MSA-9706S-06Y913	1
J7*	6510016431	53307-1471	1
F1*	5210001160	ERBRE3R00V	1
W1**	7030012290	RDS2T0R0	1
W2**	8910000220	FFC-1024 (P0.5N40L120)	1
W3**	8910000230	FFC-1025 (P0.5N30L120)	1
W4**	8900020400	OPC-2216	1
MP1*	8510014940	2601 VCO CASE Y641	1
MP2*	8510021220	3570 VCO COVER Y1324	1
MP3*	8510014940	2601 VCO CASE Y641	1
MP4*	8510014950	2601 VCO COVER Y642	1
MP5*	8510014890	2577 DBM CASE	1

\*: Refer to "BOARD LAYOUTS" for the location.

\*\*: Refer to "GENERAL WIRING" for the connection

Screw abbreviations A, B0, BT: Self-tapping PH: Pan head ZK: Black NI-ZU: Nickel-Zinc SUS: Stainless

### [FRONT UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MC1	0800014230	HM-205B	[#01] 1
		(Optional) HM-205B	[#04] 1
		(Optional) HM-205B	[#05] 1
		(Optional) HM-205B	[#06] 1
		(Optional) HM-205B	[#07] 1
		(Optional) HM-205B	[#09] 1
		(Optional) HM-205B	[#10] 1
		0800014230 HM-205B	[#11] 1
		(Optional) HM-205B	[#14] 1
		(Optional) HM-205B	[#15] 1
	0800014230	(Optional) HM-205B	[#16] 1
		(Optional) HM-205B	[#17] 1
		(Optional) HM-205B	[#19] 1
		(Optional) HM-205B	[#20] 1
		0800014230 HM-205B	[#21] 1
		(Optional) HM-205B	[#24] 1
		(Optional) HM-205B	[#25] 1
		(Optional) HM-205B	[#26] 1
		(Optional) HM-205B	[#27] 1
		(Optional) HM-205B	[#29] 1
		(Optional) HM-205B	[#30] 1
SP1	2510001800	045P08010	1
W1**	9035700010	22/00/030/W02/W02	1
MP1	8210029830	3570 FRONT PANEL ASSEMBLY	1
MP4	8930089030	3570 SP HOLDER	1
MP5	8310084000	3570 D-COVER	1
MP6	8930088990	3570 SHAFT	1
MP7	8930089100	3570 SPRING	1
MP8	8930088960	3570 6-KEY (SC)	1
MP9	8930088970	3570 7-KEY (SC)	1
MP10	8930051970	2345 A-BUSH PLATE Y514	1
MP11	8930089610	3570 MIC CAP	[#31] 1
	8930089610	3570 MIC CAP	[#34] 1
	8930089610	3570 MIC CAP	[#35] 1
	8930089610	3570 MIC CAP	[#36] 1
	8930089610	3570 MIC CAP	[#37] 1
	8930089610	3570 MIC CAP	[#39] 1
	8930089610	3570 MIC CAP	[#41] 1
	8930089610	3570 MIC CAP	[#41] 1
	8930089610	3570 MIC CAP	[#44] 1
	8930089610	3570 MIC CAP	[#45] 1
	8930089610	3570 MIC CAP	[#46] 1
	8930089610	3570 MIC CAP	[#47] 1
	8930089610	3570 MIC CAP	[#49] 1
	8930089610	3570 MIC CAP	[#50] 1
MP12	8610014660	KNOB N-420	1
MP13	8610014650	KNOB N-419	2
MP14	8930069020	O-RING (BG)	1
MP15	8930052280	O-RING (AC) (TOP)	2
MP16	8930055841	2490 EARTH SPRING-1	1
MP21	8810008661	PHBT M3 X 8 NI-ZC3	9
MP22	8810008661	PHBT M3 X 8 NI-ZC3	3

### [LOGIC UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510022472	40FLT-SM2-TB (LF) (SN) (M)	1
J2*	6510021722	30FLT-SM2-TB (LF) (SN) (M)	1
J3*	6510030260	BM04B-PASS-TF (LF) (SN)	1
J4*	6510018921	B8B-PH-SM4-TB (LF) (SN)	1
J8*	6510022022	14FLT-SM2-TB (LF) (SN) (M)	1
J9*	6510028221	AYF532265T	1
J10*	6510019421	B8B-ZR-SM4-TF (LF) (SN)	1
J11*	6510027570	B7B-ZR-SM4-TF (LF) (SN)	1
DS1	5030003860	888BK01012 <SKD>	1

### [DIAL UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510030480	IMSA-9210B-1-04ZA311-PT1	1
S1*	2250000730	TP90N245AE20PY-14.5F-3338	1

### [VOL UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510030470	IMSA-9210B-1-03ZA311-PT1	1

### [SQL UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510030470	IMSA-9210B-1-03ZA311-PT1	1

### [CONNECT UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510030290	ICOM-CCBPM08MCC <ODS>	1
J2*	6510025142	10FLT-SM2-TB (LF) (SN) (M)	1

\*: Refer to “**BOARD LAYOUTS**” for the location.

\*\*\*: Refer to “**GENERAL WIRING**” for the connection

**Screw abbreviations** A, B0, BT: Self-tapping PH: Pan head ZK: Black NI-ZU: Nickel-Zinc SUS: Stainless



## [ACCESSORIES]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MC1	(Optional)	HM-205RB	[#31] 1
	(Optional)	HM-205RB	[#34] 1
	(Optional)	HM-205RB	[#35] 1
	(Optional)	HM-205RB	[#36] 1
	(Optional)	HM-205RB	[#37] 1
	(Optional)	HM-205RB	[#39] 1
	(Optional)	HM-205RB	[#41] 1
	(Optional)	HM-205RB	[#41] 1
	(Optional)	HM-205RB	[#44] 1
	(Optional)	HM-205RB	[#45] 1
	(Optional)	HM-205RB	[#46] 1
	(Optional)	HM-205RB	[#47] 1
	(Optional)	HM-205RB	[#49] 1
	(Optional)	HM-205RB	[#50] 1
W1	8900009041	OPC-891A	1
W2	8900010280	OPC-1000	[#31] 1
	8900010280	OPC-1000	[#34] 1
	8900010280	OPC-1000	[#35] 1
	8900010280	OPC-1000	[#36] 1
	8900010280	OPC-1000	[#37] 1
	8900010280	OPC-1000	[#39] 1
	8900010280	OPC-1000	[#41] 1
	8900010280	OPC-1000	[#41] 1
	8900010280	OPC-1000	[#44] 1
	8900010280	OPC-1000	[#45] 1
	8900010280	OPC-1000	[#46] 1
	8900010280	OPC-1000	[#47] 1
	8900010280	OPC-1000	[#49] 1
	8900010280	OPC-1000	[#50] 1
MP1	8950006870	2917 MIC HANGER	1
MP2	8010022970	3570 MOBILE BRACKET	1
MP3	8820001460	3054 KNOB BOLT	2
MP4	8810004700	PHA M3 X16 SUS	2
MP5	8810001490	PHA M5 X20 SUS	4
MP6	8850000180	FLAT WASHER M 5 SUS	4
MP7	8850000500	S-WASHER M 5 SUS	4
MP9	8310050320	2417 C-PLATE Y557	[#31] 1
	8310050320	2417 C-PLATE Y557	[#34] 1
	8310050320	2417 C-PLATE Y557	[#35] 1
	8310050320	2417 C-PLATE Y557	[#36] 1
	8310050320	2417 C-PLATE Y557	[#37] 1
	8310050320	2417 C-PLATE Y557	[#39] 1
	8310050320	2417 C-PLATE Y557	[#41] 1
	8310050320	2417 C-PLATE Y557	[#41] 1
	8310050320	2417 C-PLATE Y557	[#44] 1
	8310050320	2417 C-PLATE Y557	[#45] 1
	8310050320	2417 C-PLATE Y557	[#46] 1
	8310050320	2417 C-PLATE Y557	[#47] 1
	8310050320	2417 C-PLATE Y557	[#49] 1
	8310050320	2417 C-PLATE Y557	[#50] 1
MP10	8810004700	PHA M3 X16 SUS	[#31] 3
	8810004700	PHA M3 X16 SUS	[#34] 3
	8810004700	PHA M3 X16 SUS	[#35] 3
	8810004700	PHA M3 X16 SUS	[#36] 3
	8810004700	PHA M3 X16 SUS	[#37] 3
	8810004700	PHA M3 X16 SUS	[#39] 3
	8810004700	PHA M3 X16 SUS	[#41] 3
	8810004700	PHA M3 X16 SUS	[#41] 3
	8810004700	PHA M3 X16 SUS	[#44] 3
	8810004700	PHA M3 X16 SUS	[#45] 3
	8810004700	PHA M3 X16 SUS	[#46] 3
	8810004700	PHA M3 X16 SUS	[#47] 3
	8810004700	PHA M3 X16 SUS	[#49] 3
	8810004700	PHA M3 X16 SUS	[#50] 3

## • AIS UNIT (UX-231)

### [MAIN UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510030460	IMSA-9210B-2-06Z236-GF	1
J2*	6510021411	S6B-ZR-SM4A-TF (LF) (SN)	1

### [ACCESSORIES]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8810008661	PHBT M3 X 8 NI-ZC3	2

## • NMEA2000 UNIT (UX-232)

### [MAIN UNIT]

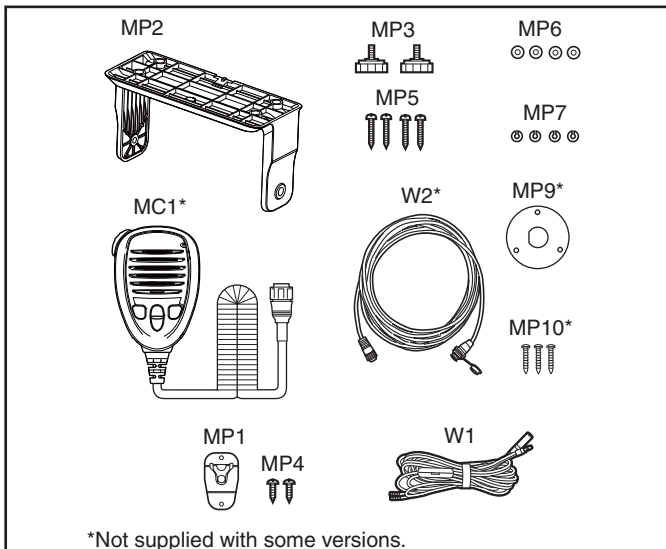
REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510022692	06FLT-SM2-TB (LF) (SN) (M)	1
J2*	6510022022	14FLT-SM2-TB (LF) (SN) (M)	1
J3*	6510021441	B6B-ZR-SM4-TF (LF) (SN)	1
J4*	6510019421	B8B-ZR-SM4-TF (LF) (SN)	1

### [CONNECT UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1*	6510030360	ICOM-MMAPM05MCC <ODS>	1
J2*	6510022692	06FLT-SM2-TB (LF) (SN) (M)	1

### [ACCESSORIES]

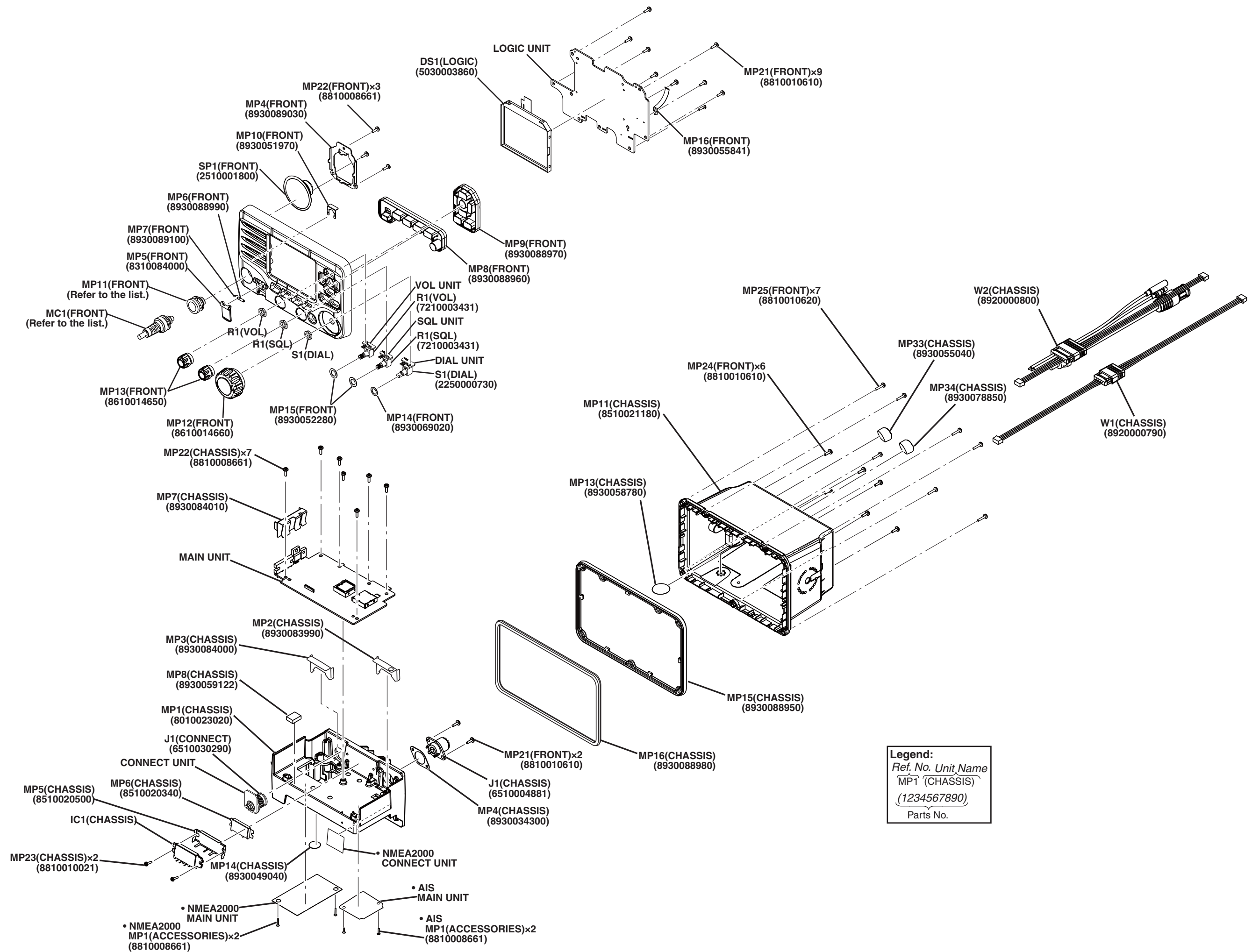
REF NO.	ORDER NO.	DESCRIPTION	QTY.
W1**	8910000070	FFC-1008 (P0.5N6L50)	1
W2**	8910000170	FFC-1019 (P0.5N14L150)	1
MP1	8810008661	PHBT M3 X 8 NI-ZC3	2



\*: Refer to “**BOARD LAYOUTS**” for the location.

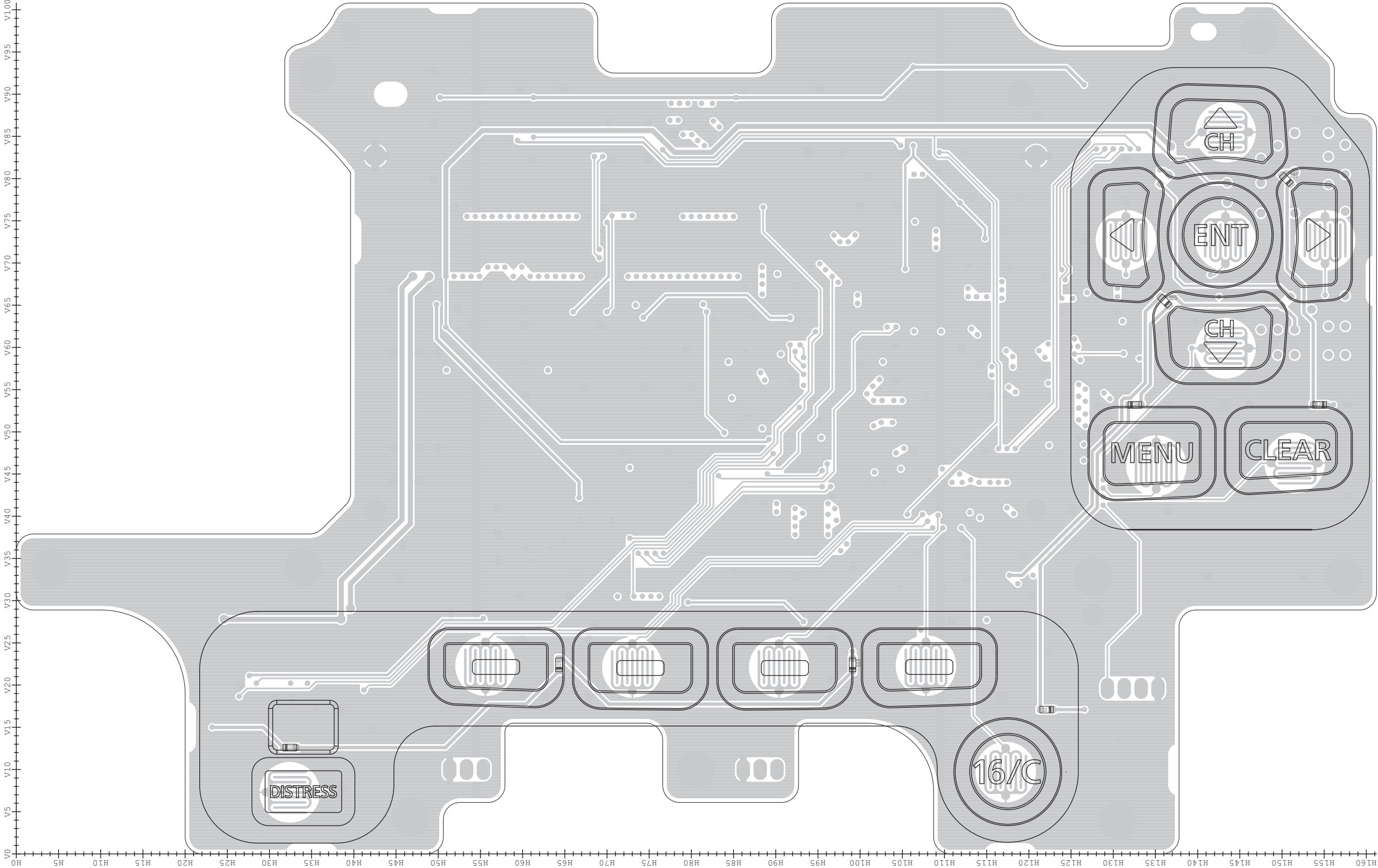
\*\*: Refer to “**GENERAL WIRING**” for the connection

**Screw abbreviations** A, B0, BT: Self-tapping PH: Pan head ZK: Black NI-ZU: Nickel-Zinc SUS: Stainless



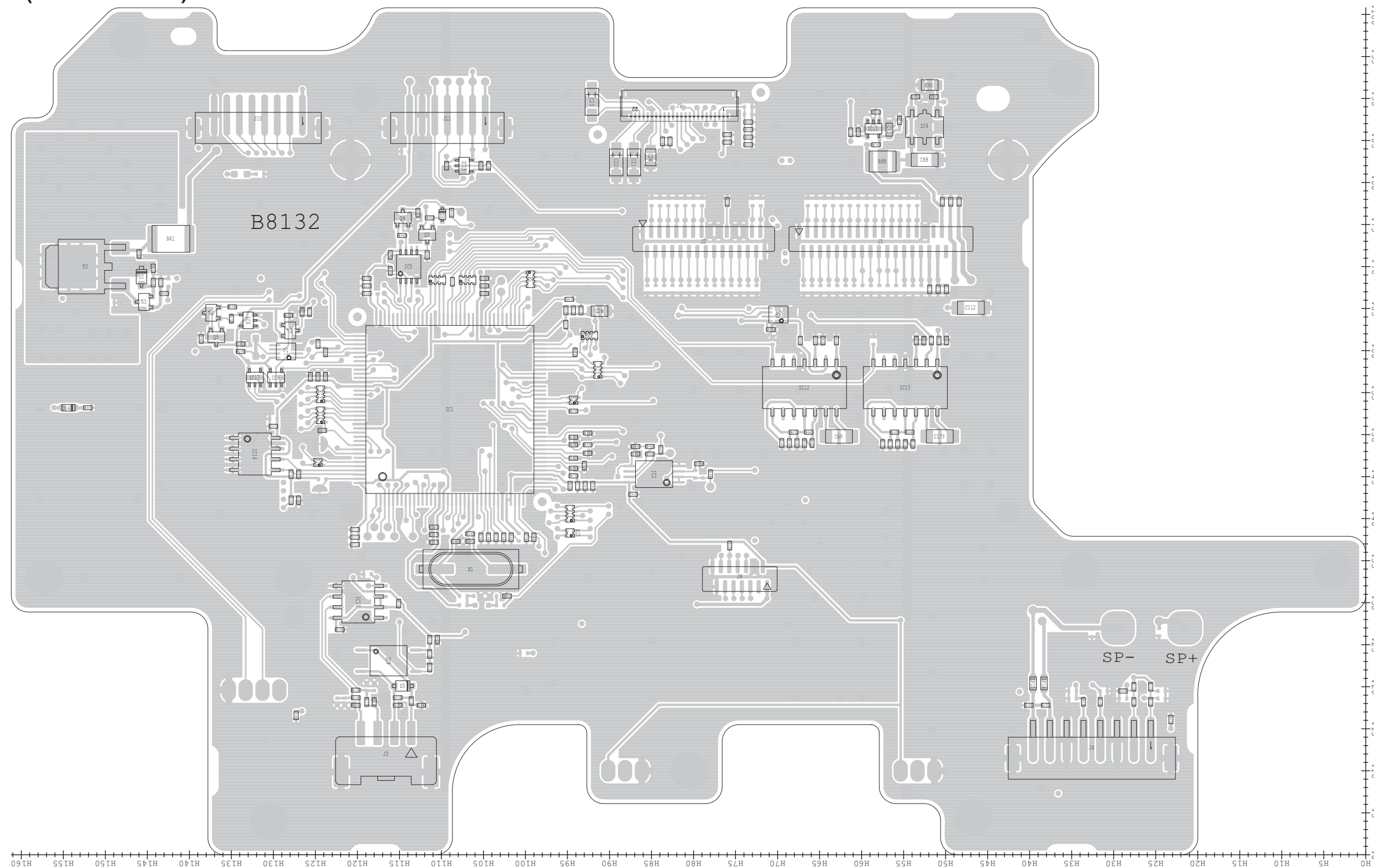
NOTE: When replacing a flat cable, form the new one in the same shape as the original.

• LOGIC UNIT B-8132  
(TOP VIEW)



The actual configuration of the PC board can be seen by viewing the top and bottom BOARD LAYOUT pages together.

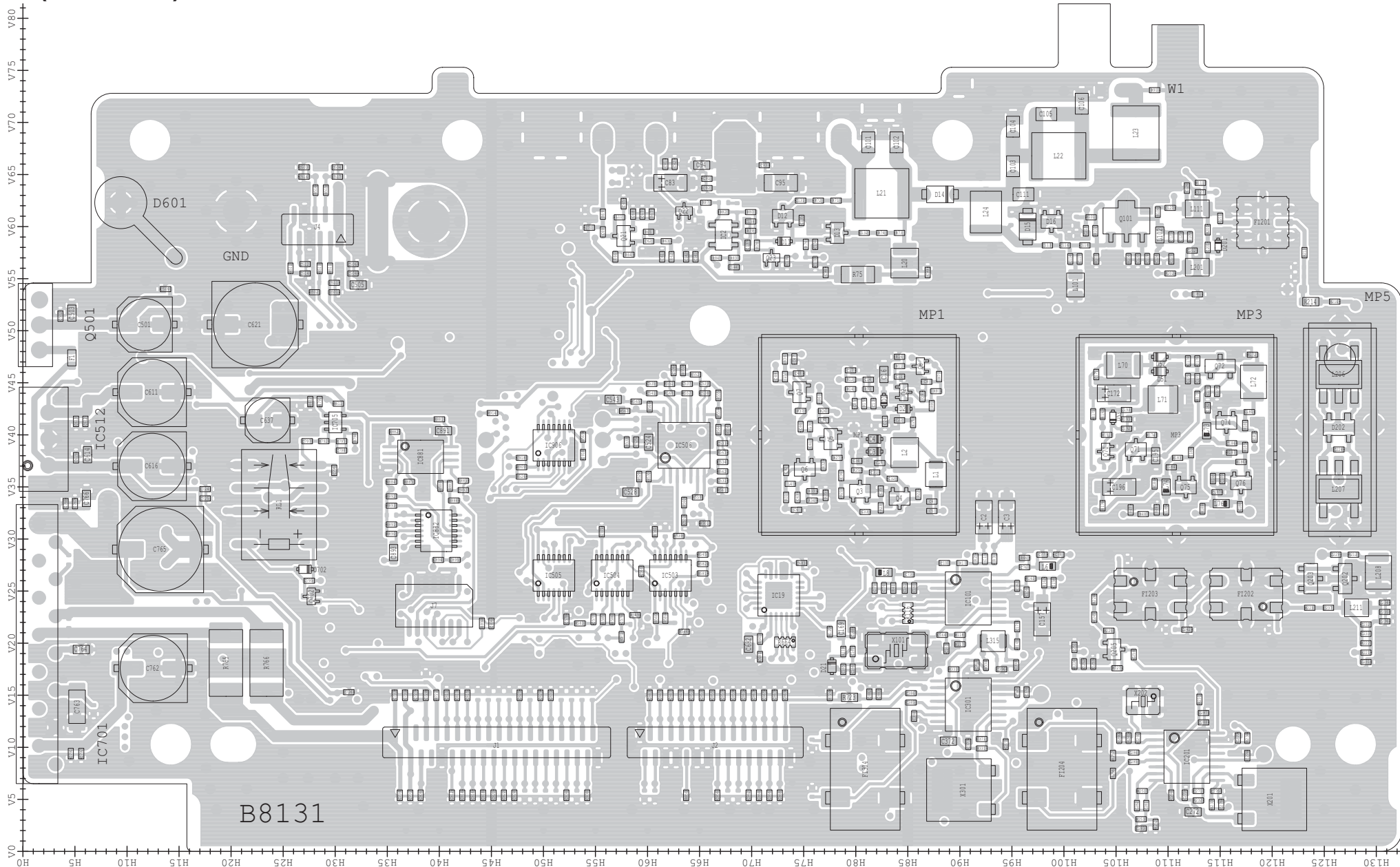
• LOGIC UNIT B-8032  
(BOTTOM VIEW)



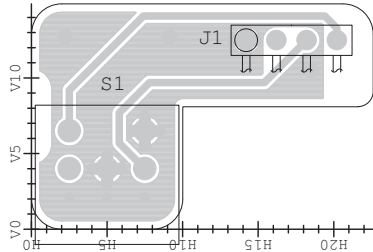


The actual configuration of the PC board can be seen by viewing the top and bottom BOARD LAYOUT pages together.

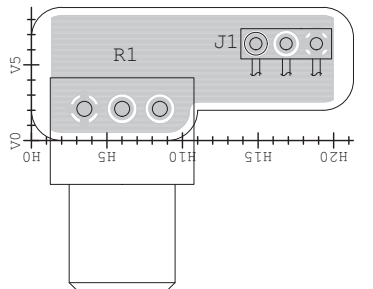
• MAIN UNIT B-8131  
(TOP VIEW)



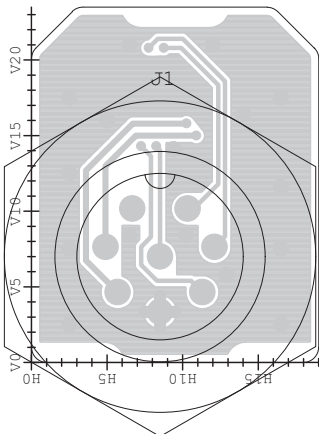
• **DIAL UNIT B-8133  
(TOP VIEW)**



• VOL/SQL UNIT B-8134  
(TOP VIEW)

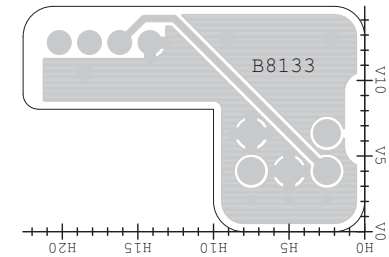


• **CONNECT UNIT B-8135  
(TOP VIEW)**

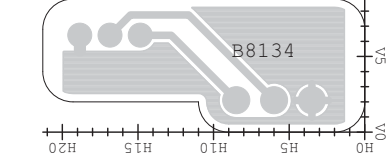


The actual configuration of the PC board can be seen by viewing the top and bottom BOARD LAYOUT pages together.

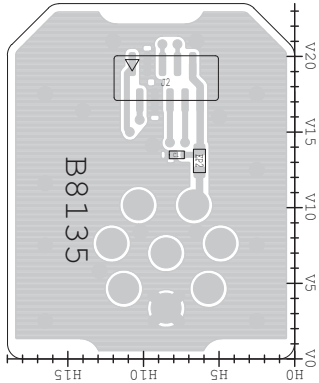
• DIAL UNIT B-8133  
(BOTTOM VIEW)



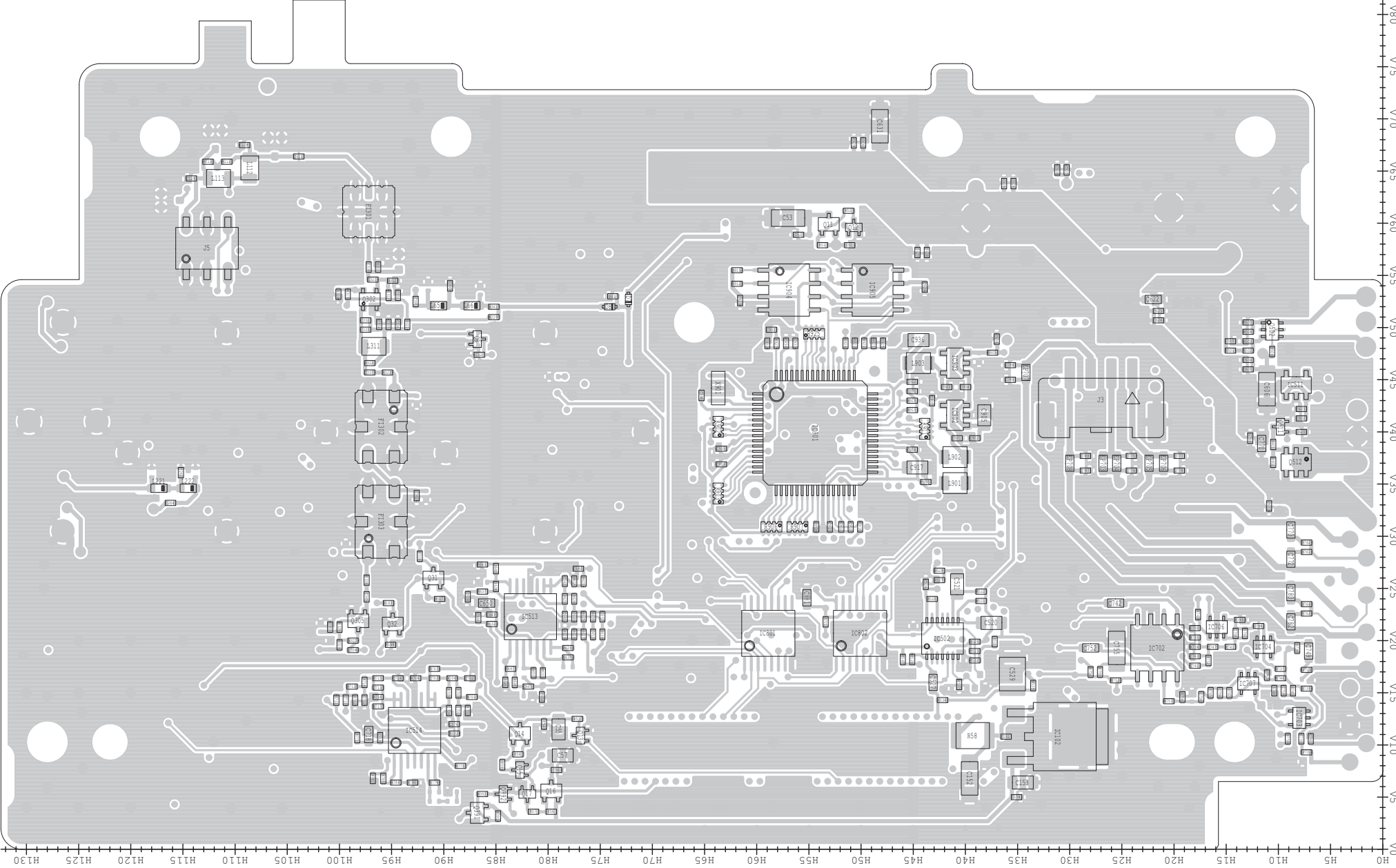
• VOL/SQL UNIT B-8134  
(BOTTOM VIEW)



• 8135 UNIT B-8135  
(BOTTOM VIEW)



• MAIN UNIT B-8131  
(BOTTOM VIEW)

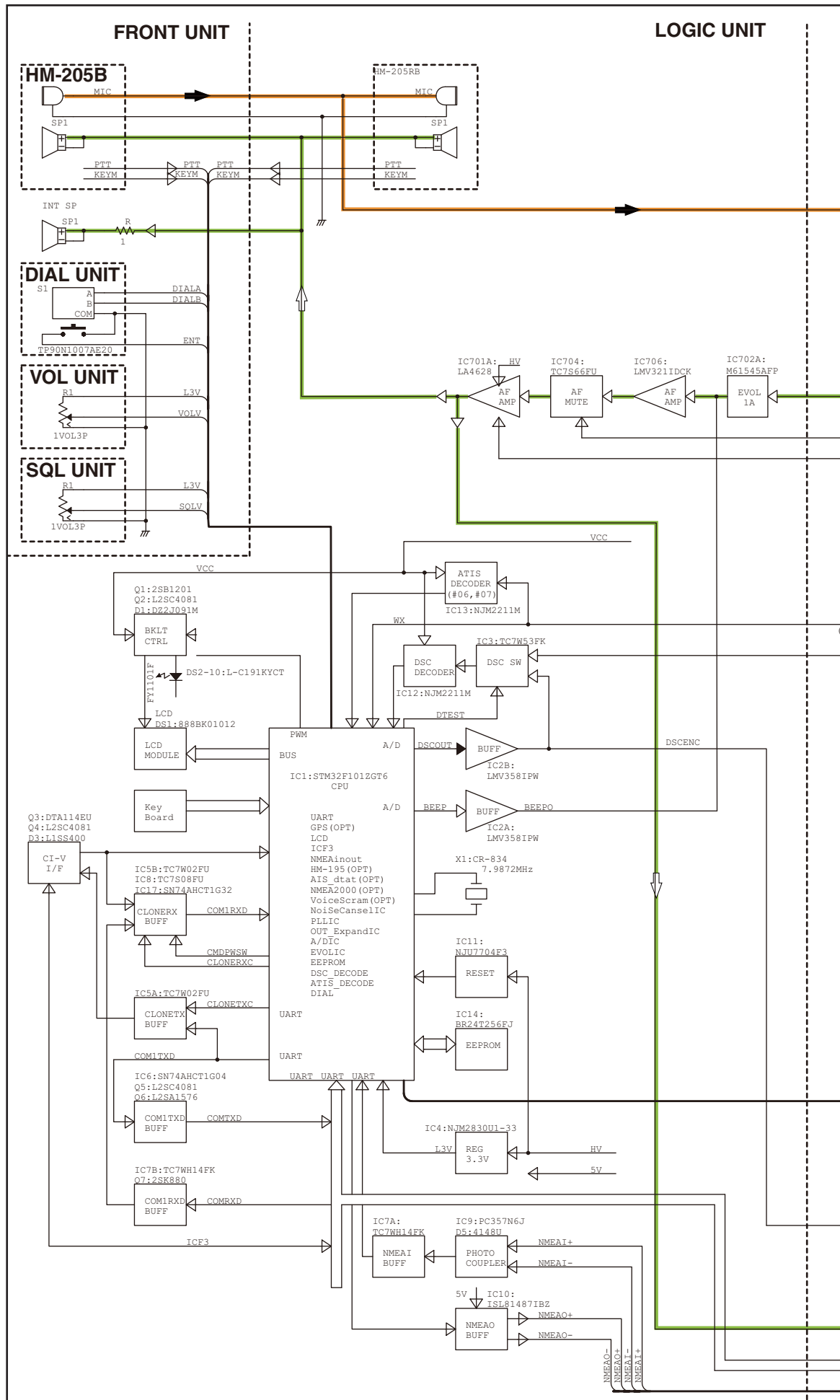




## GENERAL WIRING



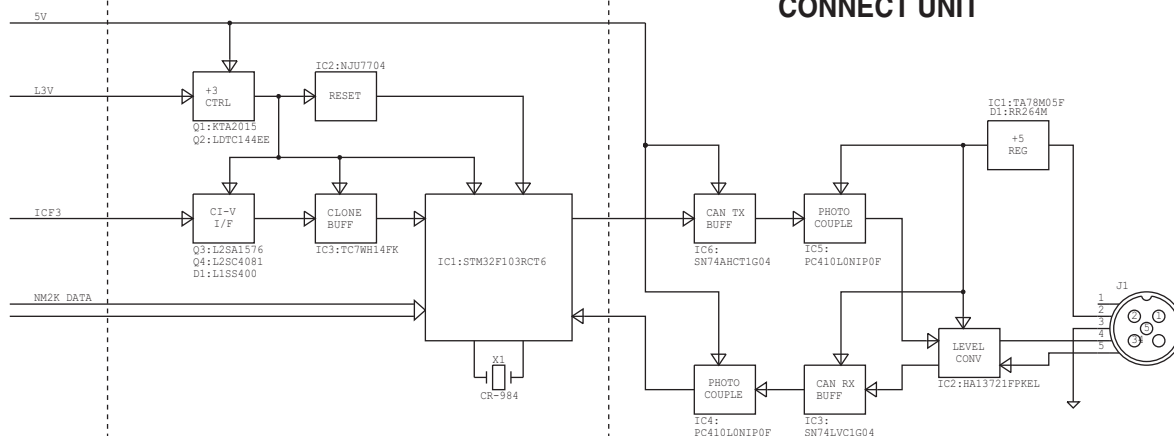




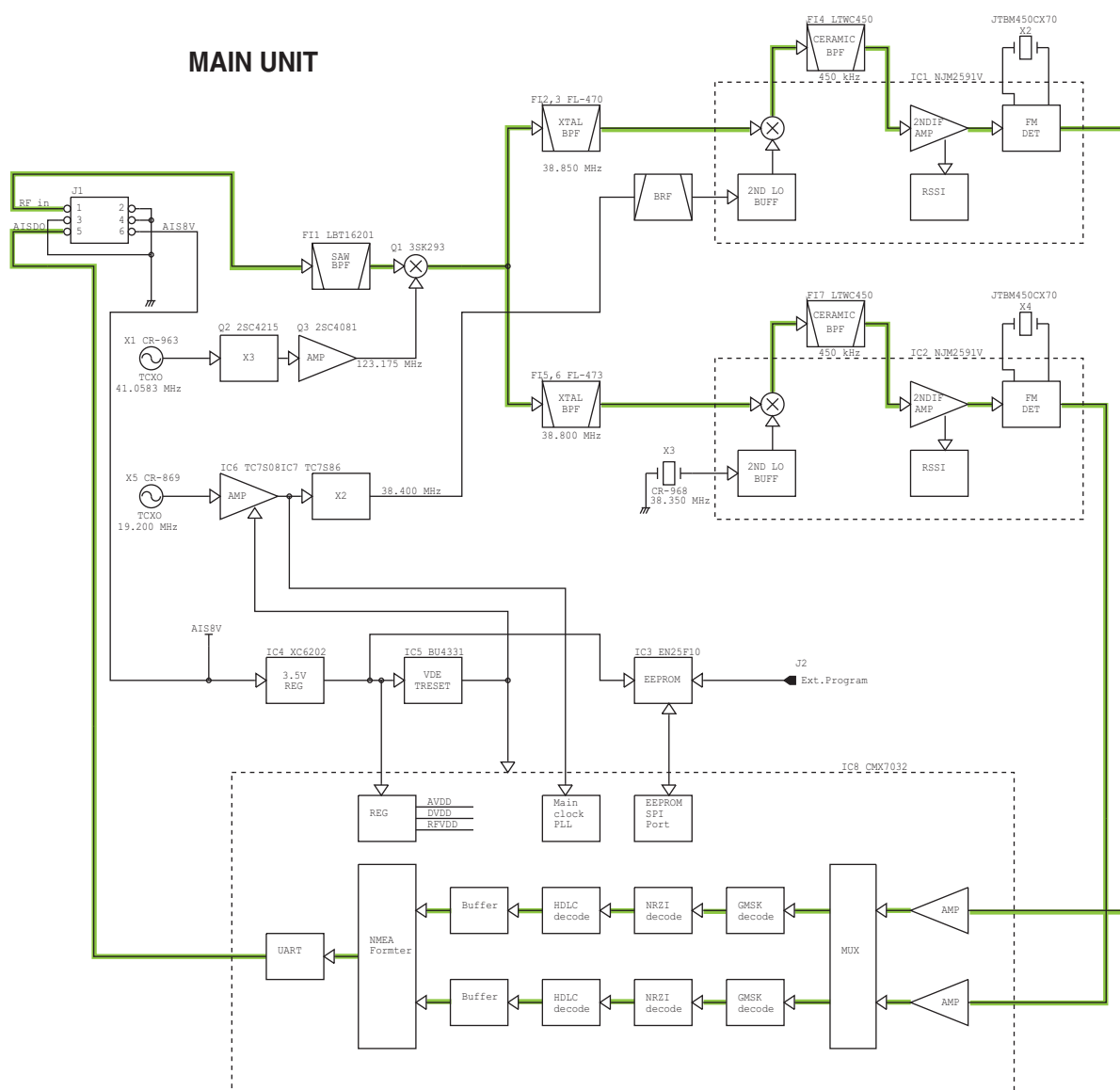


**LOGIC UNIT  
(IC-M506)**

## CONNECT UNIT



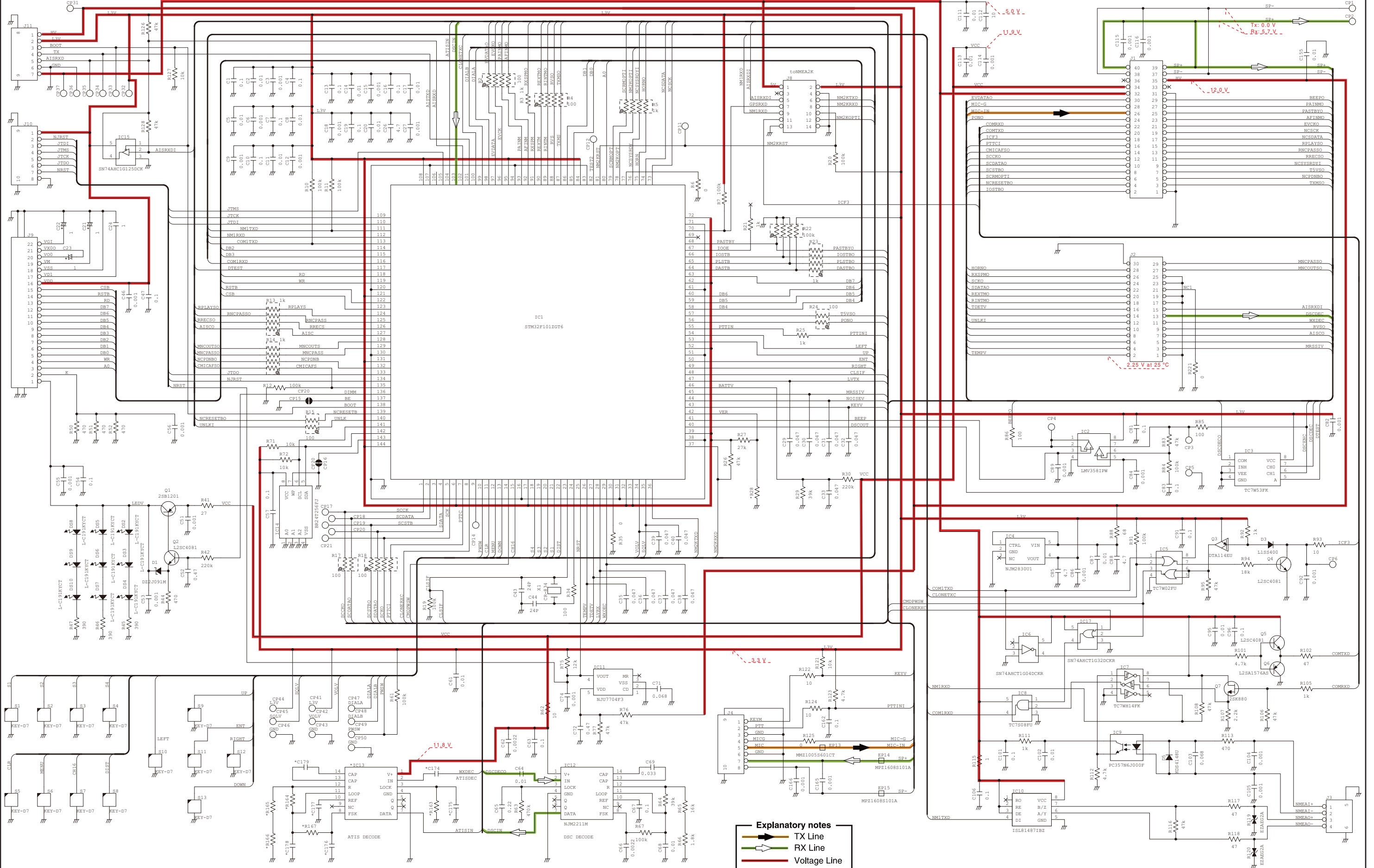
## MAIN UNIT



# SECTION 10

# VOLTAGE DIAGRAM

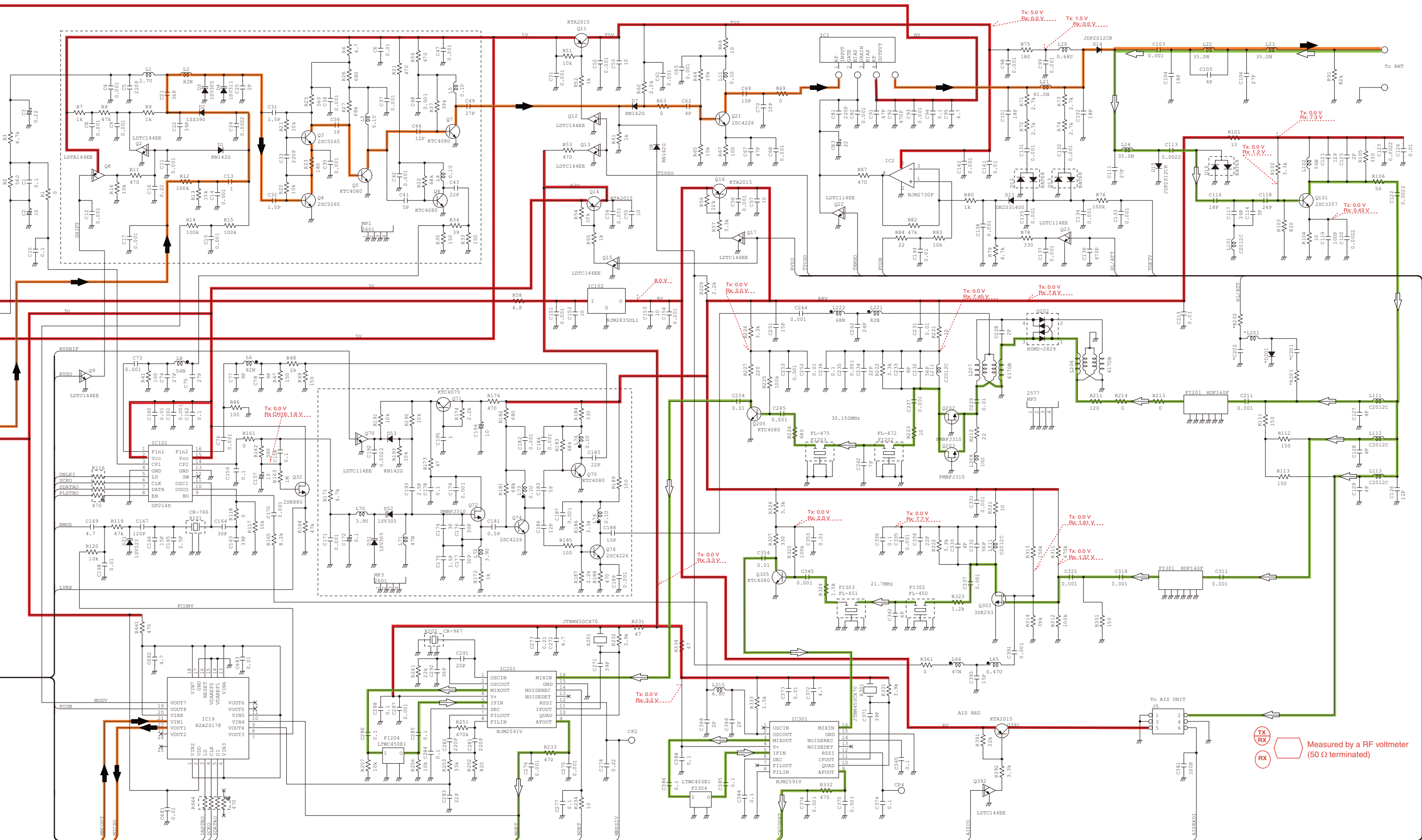
## • LOGIC UNIT



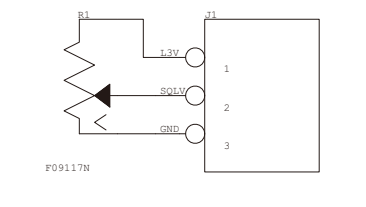
\*: Refer to the PARTS LIST for the value and name of component.



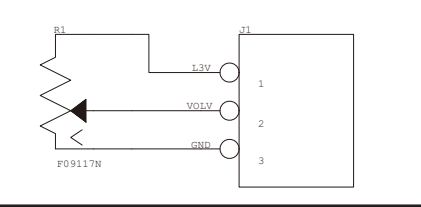
# • MAIN UNIT (1/2)



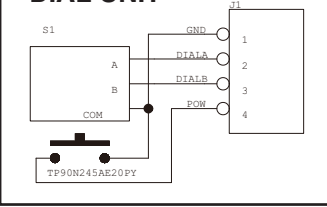
## • SQL UNIT



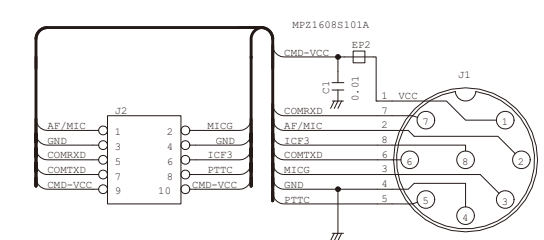
## • VOL UNIT



## • DIAL UNIT



## • CONNECT UNIT

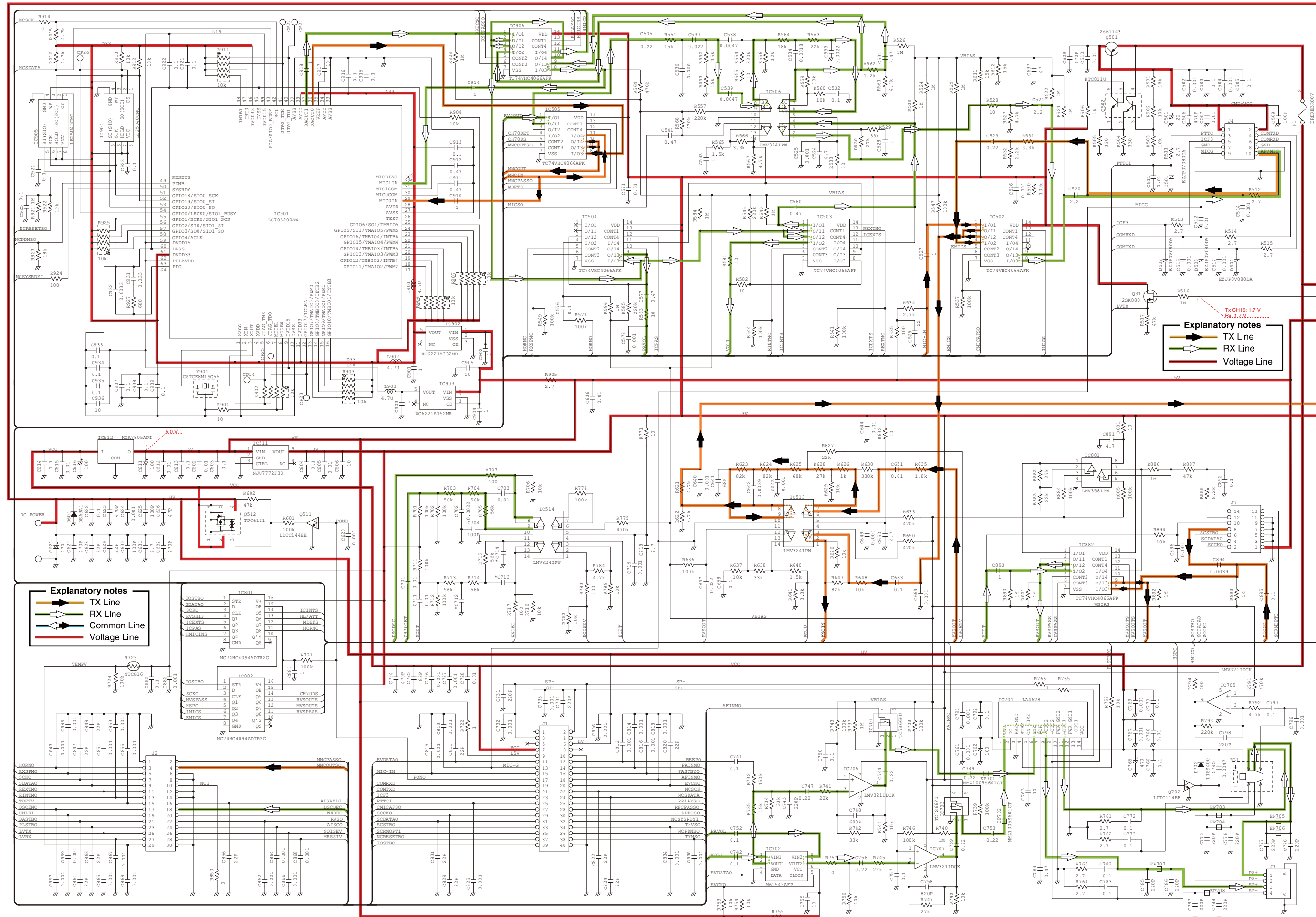


TX  
RX  
Measured by a RF voltmeter  
(50 Ω terminated)

Explanatory notes  
TX Line  
RX Line  
Voltage Line

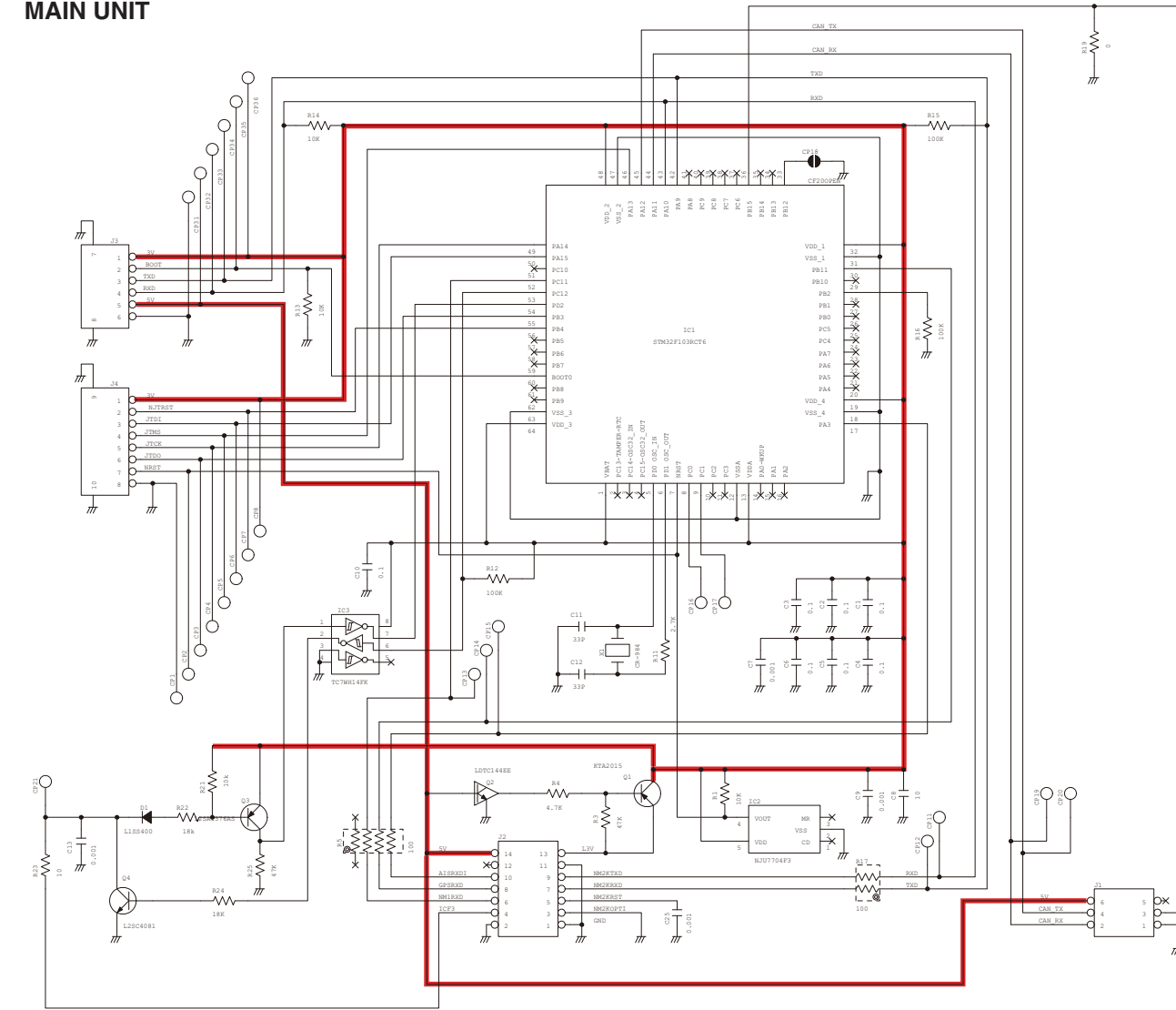
\*: Refer to the PARTS LIST for the value and name of component.

• MAIN UNIT (2/2)

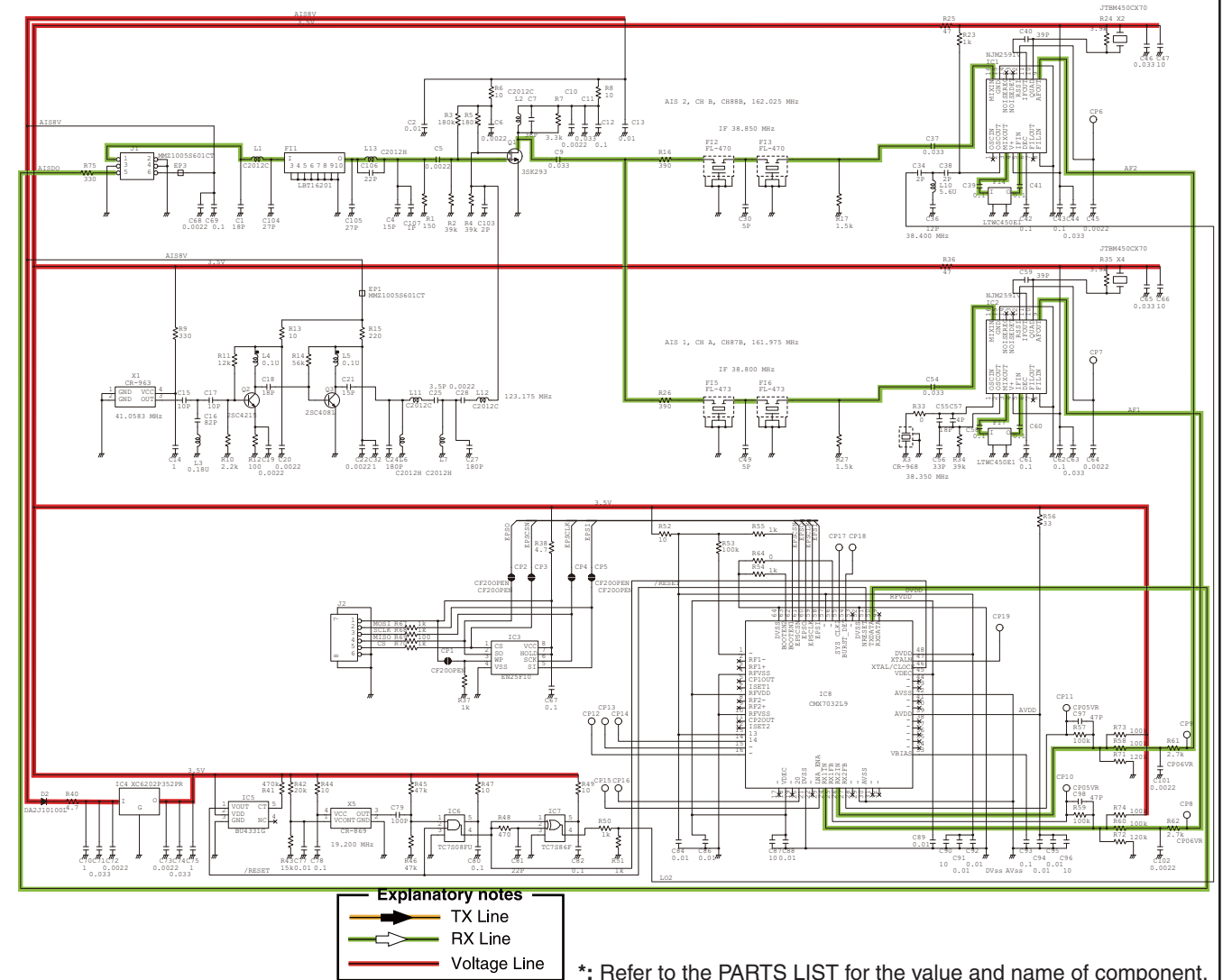


\*: Refer to the PARTS LIST for the value and name of component.

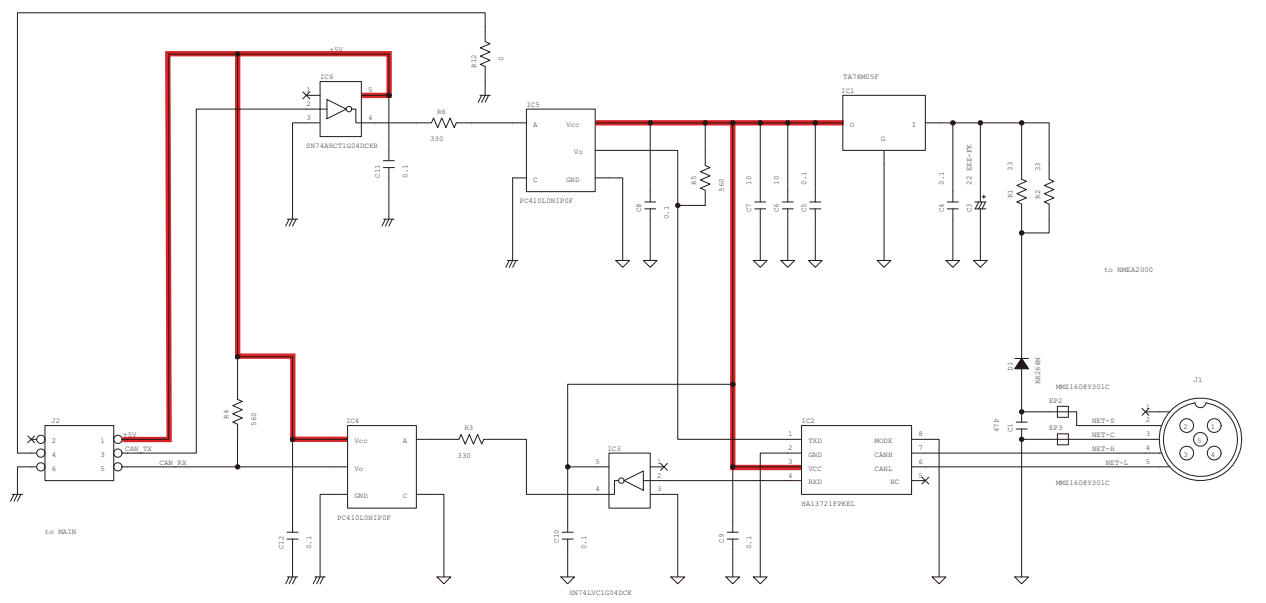
• NMEA2000 UNIT (UX-232)  
MAIN UNIT



• AIS UNIT (UX-231)  
MAIN UNIT



• NMEA2000 UNIT (UX-232)  
CONNECT UNIT



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